ENCLOSURE (1)

BALTIMORE GAS AND ELECTRIC COMPANY
INSERVICE INSPECTION SUMMARY REPORT
FOR CALVERT CLIFFS UNIT 2

ASME BOILER AND PRESSURE VESSEL CODE SECTION XI, FORM NIS-1

NIS-1

OWNER'S REPORT FOR INSERVICE INSPECTIONS

(As required by the Provisions of the ASME Code Rules)

1. Owner	Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203				
		Name and Address of Owner)	•		
2. Plant	Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702				
		Name and Address of Plant)			
3. Plant U	nit	2			
4. Owner Certificate of Authorization (if required)		N/A	 		
5. Commercial Service Date		04/01/1977			

20912

7. Components Inspected

6. National Board Number for Unit

Component or Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
Reactor Pressure Vessel/Containment	Combustion Engineering	CE-67108	14001-NV	20912
Pressurizer	Combustion Engineering	CE 67603	14001-NV	20916
Steam Generator #21	Combustion Engineering	CE 67506	14001-NV	20924
Steam Generator #22	Combustion Engineering	CE 67507	14001-NV	20925
Reactor Coolant Piping/Supports	Combustion Engineering	N/A	N/A	N/A
#21A Reactor Coolant	Byron Jackson	681-N-0441	14001-NV	N/A
#21B Reactor Coolant Pump	Byron Jackson	681-N-0442	14001-NV	N/A
#22A Reactor Coolant	Byron Jackson	681-N-0443	14001-NV	N/A
#22B Reactor Coolant	Byron Jackson	681-N-0444	14001-NV	N/A
Safety Injection Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Spray Piping/Supports	Bechtel	N/A	N/A	N/A
Shutdown Cooloing Piping/Supports	Bechtel	N/A	N/A	N/A
Pressurizer Safety & Relief Piping/Supports	Bechtel	N/A	N/A	N/A
Charging Piping/Supports	Bechtel	N/A	N/A	N/A
Letdown Piping/Supports	Bechtel	N/A	N/A	N/A
Main Steam Piping/Supports	Bechtel	N/A	N/A	N/A
Feedwater Piping/Supports	Bechtel	N/A	N/A	N/A
Regenerative Heat Exchanger	Whitlock	75252	56442 NV	N/A

8. Examination Dates 6/30/1997

to 5/6/1999

18.7	TC	-1
N	12	-1

Page	2	of	•
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9. Inspection Period Identification:	1996	to	1	999		
10. Inspection Interval Identification:	1988	to to	1	999		
11. Applicable Edition of Section X	1983	A	dde	enda ,	Summer 83	
12 Date/Revision of Inspection Plan:	October 1994, Change 5					

12. Date/Revision of Inspection Plan: October 1994, Change 5

13. Abstract of Examinations and Tests. Include a list of examinations and tests and a statement concerning status of work required for the Inspection Plan.

The examinations reported herein constitute the twelfth report of Inservice Inspections performed at Calvert Cliffs Unit 2, and the second report within the third period of the second interval of commercial operation. The examinations for the second interval as required by the Long-Term Examination Plan for Calvert Cliffs Unit 2, were performed in accordance with the 1983 Edition of ASME Code Section XI with Addenda through Summer, 1983. Nondestructive examination data and procedures are available at the plant site for review.

- 14. Abstract of Results of Examinations and Tests.
 - Eddy current examinations of #21 and #22 Steam Generators in 1999 revealed signs of less severe steam generator tube degradation than that seen in the 1997 examination. Results of #21 Steam Generator examinations showed that 253 tubes were defective. Inspection of #22 Steam Generator revealed that 301 tubes were defective.
 - 2. Volumetric examination to satisfy the Ten-Year Inservice Inspection of the Reactor Pressure Vessel (RPV), detected nine non-geometric subsurface indications. Eight were located in six different RPV shell welds and one indication was located in one nozzle to shell weld.
 - 3. The Unit 2 Containment moisture barrier was scheduled for replacement due to damage caused by aging and poor worker practices in the area during previous outages. Examinations required by ASME XI Class MC, detected degradation of the Containment liner plate below the seal area (considered an inaccessible area). Corrosion and pitting were evident. The visual examination was supplemented with ultrasonic thickness testing and depth measurements to determine the remaining Containment liner thickness. The three most severe locations were selected and the results indicated that the Containment liner thickness was reduced in these areas due to wastage and exceeded 10% of the nominal wall.
- 15. Abstract of Corrective Measures.
 - 1. The defective tubes in #21 Seam Generator were plugged, increasing the number of plugged tubes to 957 (11.2%). The defective tubes in #22 Steam Generator were also plugged, increasing its total to 744 (8.7%) tubes plugged.
 - 2. The non-geometric indications detected during volumetric examination of the Unit 2 Reactor Pressure Vessel were sized and determined to be Code-allowable per IWB-3500 of ASME Section XI.
 - 3. The visual examination of the Unit 2 moisture barrier was supplemented with ultrasonic thickness testing and depth measurements to determine the remaining Containment liner thickness. The three most severe locations were selected and the results indicated that the liner thickness in these areas was reduced due to wastage caused by corrosion and exceeded 10% of the nominal wall. An Engineering Evaluation was performed under ES199900382 and found the remaining wall thickness was acceptable without repair. The root cause of the degradation was determined to be the inadequate moisture barrier seal provided by the old type sealant. The seal had failed due to aging and poor work practices. Corrective actions included coating of the Containment liner surface below the floor grade, installation of a high density elastomer which provides superior sealing capabilities, and continued examinations of the moisture barrier seal during system engineer walkdowns. Long-term corrective actions include an inspection of the previously identified areas with the most severe degradation, a verification of the assumed corrosion rate in the Engineering evaluation, inspection of the Containment liner around Steam Generator pedestals and buttresses for similar corrosion, and evaluation of the need to examine Unit-1's moisture barrier during the upcoming refueling outage.

We certify that a) the statements made in this report are correct, b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI, and c) corrective measures taken conform to the rules of the ASME Code, Section XI.

Certificat	e of Authorization No.	(if applicable)	N/A	Expiration Date	_N/4	1.00
Date	7/21/99	Signed -	BALTIMORE GAS & EC	LLETRIC Co	Ву	Keith M. HOFFMAN

NIS-1

CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectores and the State or provinces of	a.e
MARYLAND and employed by FACTORY MUTURE INSURANCE COMPANY have inspected the components described in this Owner's Report during the peroid	of
, and state that to the best of my knowledge and belief, the Owner has performed	E
examinations and tests and taken corrective measures described in this Owner's Report in accordance with the inspection plan and as required by the ASMI Code, Section XI.	_
By signing this certificate neither the Inspector nor his employer makes and any warranty, expressed or implied, concerning the examinations, tests, and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
Polyt Laurence Commissions WBBZZGANT MD647	
Inspector's Signature National Board, State, Province, and Endorsements	
Date Quely 27, 1998	

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

-/-

INTERIOR ATTACHMENTS AND CORE SUPPORT STRUCTURES

Summary/ID No.

Component ID

Component Description

Comments

101362 N

NOZZLES

CHARGING INLET, SAFETY INJECTION

AND SURGE NOZZLES

Exam Results

99VE034

Accept

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

CORE SHROUD WELDS

Summary/ID No.

Component ID

Component Description

CSW WELDS NEAR FUEL AREA

Comments

101361 Exam Results

99VE033

Accept

:AM CATEGORY / ITEM NUMBER:

B-A/B-RF012

RPV CIRC WELDS

Summary/ID No.

001000

Component ID

8-203

Component Description

UPPER TO MIDDLE SHELL

Comments

ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC20 AND AUTSLIC35 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE001. D70187-2/D70389-1.

Exam Results

99VE001

Accept

EXAM CATEGORY / ITEM NUMBER:

B-A / B1.11

RPV CIRC WELDS

Summary/ID No. 001020

Component ID

10-203

Component Description

LOWER SHELL TO LOWER HEAD

Comments

LIMITED EXAM DUE TO PROXIMITY OF CORE SUPPORT LUGS AND FLOW SKIRT. TWO AUTSLIC40 INDICATIONS WERE SIZED WITH AUTSLIC20, AUTSLIC35 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE002. D70187-

2/D70389-1.

Exam Results

99VE003

Accept

001010

9-203

MIDDLE TO LOWER SHELL

Exam Results

99VE002



99VE006

Accept

ATTACHMENT 1

Inservice Inspection Report 3/3/2

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203 1. Owner: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702 2. Plant: 3. Plant Unit: 4. Owner Certificate of Authorization(If Req.) N/A 04/01/1977 5. Commercial Service Date: 20912 6. National Board Number for Unit: B-A / B1.12 **EXAM CATEGORY / ITEM NUMBER: RPV LONG WELDS** Comments Summary/ID No. Component Description Component ID LOWER SHELL AT 210 DEG. 001170 3-203B **Exam Results** 99VE011 Accept LOWER SHELL AT 330 DEG. 001180 3-203C **Exam Results** 99VE012 Accept LIMITED EXAM DUE TO PROXIMITY OF LOWER SHELL AT 90 DEG. 3-203A 001160 SURVEILLANCE SPECIMEN TUBES. ONE **AUTSLIC40 INDICATION WAS SIZED WITH** AUTSLIC30 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE006. D70187-2/D70389-1. **Exam Results** 99VE010 Accept 001140 2-203B MIDDLE SHELL AT 150 DEG. **Exam Results** 99VE008 Accept ONE AUTSLIC40 INDICATION WAS SIZED WITH MIDDLE SHELL AT 270 DEG. 001150 2-203C AUTSLIC30 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF005. D70187-2/D70389-1. **Exam Results** 99VE009 Accept TWO AUTSLIC40 INDICATIONS WERE SIZED WITH MIDDLE SHELL AT 30 DEG. 2-203A 001130 AUTSLIC35 AND AUTSLIC40 SEARCH UNITS AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE004. D70187-2/D70389-1. **Exam Results** 99VE007 Accept ONE AUTSLIC40 INDICATION WAS SIZED WITH UPPER SHELL AT 210 DEG. 1-203B 001110 **AUTSLIC20 AND AUTSLIC35 SEARCH UNITS AND** FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3510-1. SEE CNF BGE003. D70187-2/D70389-1. **Exam Results** 99VE005 Accept **UPPER SHELL AT 330 DEG.** 1-203C 120 **Exam Results**



Inservice Inspection Report 3/3/2

1. Owner:

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2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

001100

1-203A

UPPER SHELL AT 90 DEG.

Exam Results

99VE004

Accept

EXAM CATEGORY / ITEM NUMBER:

B-A / B1.21

RPV CIRC HEAD WELDS

Summary/ID No.

Component ID

Component Description

LOWER HEAD DOME WELD

Comments

001190 Exam Results

99VE013

4-204

Accept

EXAM CATEGORY / ITEM NUMBER:

B-A / B1.22

RPV MERIDIONAL WELDS

nmary/ID No.

Component ID

1-204A

Component Description

Comments

LOWER HEAD AT 30 DEG. LIMITED TRANSVERSE AND PARRALLEL EXAMS

DUE TO PROXIMITY OF FLOW SKIRT.

Exam Results

1210

99VE014

Accept

EXAM CATEGORY / ITEM NUMBER:

B-A / B1.30

RPV SHELL TO FLANGE WELD

<u>Summary/ID No.</u> 001270

Component ID

7-203

Component Description

FLANGE TO UPPER SHELL

Comments

LIMITED TRANSVERSE EXAM DUE TO THE INSIDE

SURFACE TAPER.

Exam Results

99VE015

ATTACHMENT 1

Inservice Inspection Report 3/3/2

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2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-D/B3.100

RPV NOZZLE IRS

Summary/ID No. 101300

Component ID 4-205B-IRS

Component Description

Comments

Exam Results

99VE025

Accept

0072020

INLET NOZZLE AT 240 DEG.

INLET NOZZLE AT 120 DEG.

Exam Results

99VE026

Accept

101320

101310

4-205D-IRS

4-205C-IRS

INLET NOZZLE AT 300 DEG.

Exam Results

99VE027

Accept

290

4-205A-IRS

INLET NOZZLE AT 60 DEG.

Exam Results

99VE024

Accept

101270

10-205A-IRS

OUTLET NOZZLE AT 0 DEG.

Exam Results

Aum Hoodito

99VE022 Accept

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101280

10-205B-IRS

OUTLET NOZZLE AT 180 DEG.

Exam Results

99VE023

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization (If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-D/B3.90

RPV NOZZLE TO SHELL WELDS

Summary/ID No.

Component ID

Component Description

Comments

101240

4-205B

INLET NOZZLE AT 120 DEG.

LIMITED EXAM DUE TO NOZZLE INNER RADIUS.

Exam Results

99VE019

Accept

4-205C

INLET NOZZLE AT 240 DEG.

TRANSVERSE EXAM LIMITED DUE TO NOZZLE

INNER RADIUS.

Exam Results

99VE020

Accept

101260

101250

4-205D

INLET NOZZLE AT 300 DEG.

LIMITED TRANSVERSE EXAM DUE TO PROXIMITY

OF NOZZLE INNER RADIUS.

am Results

99VE021

Accept

101230

4-205A

INLET NOZZLE AT 60 DEG.

LIMITED TRANSVERSE EXAM DUE TO PROXIMITY OF NOZZLE INNER RADIUS. ONE AUTSLIC40 INDICATION WAS SIZED WITH AUTSLIC20 AND

AUTSLIC35 AND FOUND ALLOWABLE IN ACCORDANCE WITH IWB-3512-1. SEE CNF RGF007

D70187-2/D70389-1/CC-39.

Exam Results

99VE018

Accept

101210

10-205A

OUTLET NOZZLE AT 0 DEG.

LIMITED TRANSVERS EXAM DUE TO THE

INTEGRAL EXTENSION.

Exam Results

99VE016

Accept

101220

10-205B

OUTLET NOZZLE AT 180 DEG.

LIMITED TRANSVERSE EXAM DUE TO THE

INTEGRAL EXTENSION.

Exam Results

99VE017

Accept

EXAM CATEGORY / ITEM NUMBER:

B-E / B4.12

PARTIAL PENETRATION WELDS

Summary/ID No. 101610

Component ID **CRD NOZZLES** **Component Description**

CONTROL ROD DRIVE NOZZLES

Comments

Exam Results

99BV386



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

PARTIAL PENETRATION WELDS

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-E / B4.13

Summary/iD No.

Component ID

Component Description

INSTUMENTATION NOZZLES

Comments

101620 **INSTRUMENT NOZZLES**

Exam Results

Accept

99BV387

EXAM CATEGORY / ITEM NUMBER: B-G-1 / B6.180

RCP-21A

Summary/ID No.

Component ID 21A-S-1-16

Component Description RCP-21A'STUDS

Comments

162220 **Exam Results**

99BU011

Accept

JP-22A

Summary/ID No. 162620

Component ID 22A-S-1-16

Component Description RCP-22A STUDS

Comments

Exam Results

99BU012

Accept

RCP-22B

Summary/ID No.

162820

Component ID

22B-S-1-16

Component Description

RCP-22B STUDS

Comments

Exam Results

99BU013

Accept

REACTOR COOLANT PUMP

Summary/ID No. 162420

Component ID 21B-S-1-16

Component Description RCP-21B STUDS

Comments

Exam Results

99BU003

Inservice Inspection Report 3/3/2

1. Owner:

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3. Plant Unit:

4. Owner Certificate of Authorization (If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-G-1 / B6.190

REACTOR COOLANT PUMP

Summary/ID No.

Component ID

Component Description

RCP-21B FLANGE SURFACE

Comments

RCP-21B 162425

Exam Results 99BV137

Accept

REACTOR COOLANT PUMPS

Summary/ID No. 162825

Component ID RCP-22B

Component Description RCP-22B FLANGE SURFACE Comments

Comments

Comments

Exam Results

99BV138

Accept

YAM CATEGORY / ITEM NUMBER:

B-G-1 / B6.200

.:P-21A

162230

Summary/ID No.

Component ID

Component Description RCP-21A NUTS 21A-N-1-16

Exam Results

99BV349

Accept

EXAM CATEGORY / ITEM NUMBER:

B-G-1 / B6.40

RPV THREADS IN FLANGE

Summary/ID No.

Component ID

Component Description

101335

54 FLANGE THREADS

Accept

FLANGE THREADS

Exam Results

99VE028

EXAM CATEGORY / ITEM NUMBER:

B-G-2 / B7.50

2.5-SR-2007

Summary/ID No.

Component ID

Component Description

Comments

164945

2FB

INLET FLANGE BOLTING @ 2-RV-200

INLET FLANGE BOLTING @ 2-RV-201

Exam Results

99BV391

Accept

2.5-SR-2008

Summary/ID No. 1955

Component ID

2FB

Component Description

Comments

m Results

99BV392

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

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2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

<u>N/A</u>

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-G-2 / B7.60

RCP-21A

Summary/ID No.

Component ID 21A-C-1-16 Component Description
RCP-21A SEAL BOLTING

Comments

162250 Exam Results

99BV348

Inservice Inspection Report 3/3/2

1. Owner:

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2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-J/B9.11

30-RC-21A

Summary/ID No.

Component ID

Component Description

Comments

109440

12

ELBOW TO TRANSITION PIECE

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

109450

99VE045

Accept

13

TRANSITION PIECE TO NOZZL

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE046

Accept

30-RC-21B

mmary/ID No. J430

Component ID

12

Component Description

ELBOW TO TRANSITION PIECE

Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE049 13

Accept

110440

TRANSITION PIECE TO NOZZL

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE050

Accept

30-RC-22A

Summary/ID No. 111420

Component ID

12

Component Description

ELBOW TO TRANSITION PIECE

Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE053

Accept

111430

13

TRANSITION PIECE TO NOZZL

UT PERFORMED IN LIEU OF MT AS ALLOWED BY

NRC RELIEF REQUEST.

Exam Results

99VE054

Accept

Accept

30-RC-22B

Summary/ID No. 112430

Component ID

12

Component Description

ELBOW TO TRANSITION PIECE

Comments

UT PERFORMED IN LIEU OF MT AS ALLOWED BY

NRC RELIEF REQUEST.

m Results

99VE059

UT EXAM PERFORMED IN LIEU OF MT

112440

13

TRANSITION PIECE TO NOZZL

Exam Results



Inservice Inspection Report

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

99VE060

Accept

42-RC-21

Summary/ID No.

Component ID

Component Description

Comments

107020

2

TRANSITION PIECE TO PIPE

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE036

Accept

42-RC-22

<u>Summary/ID No.</u> 108010 Component ID

Component Description

Comments

NOZZLE TO TRANSITION PIECE

UT EXAM PERFORMED IN LIEU OF MT

Exam Results

99VE039

2

Accept

1020

TRANSITION PIECE TO PIPE

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE040

Accept

REACTOR COOLANT - 42-RC-21

Summary/ID No. 107010 Component ID

1

Component Description

NOZZLE TO TRANSITION PIECE

Comments

UT EXAM PERFORMED IN LIEU OF MT

Exam Results

99VE035

Accept

SAFETY INJECTION

Summary/ID No.

Component ID

Component Description
PIPE TO VALVE 2-SI-227

Comments

Examination requested by Mechanical Design.

Exam Results

116130

99BU038

118060

7

PIPE TO VALVE 2-SI-247

Examination requested by Mechanical Design.

Exam Results

99BU028

Accept

Accept

SAFETY INJECTION SYSTEM

<u>Summary/ID No.</u> 116140 Component ID

Component Description
VALVE 2-SI-227 TO ELBOW

Comments

Examination requested by Mechanical Design.

~am Results

99BU027

Accept

VALVE 2-SI-247 TO ELBOW

Examination requested by Mechanical Design.

118070 Exam Results 8 99BU029

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

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2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

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Inservice Inspection Report

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.) 5. Commercial Service Date:

N/A

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-J/B9.12

04/01/1977

30-RC-21A

109420

Summary/ID No.

Component ID

12LU-1

Component Description

LONGITUDINAL SEAM

Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE043

Accept

109430

12LU-2

LONGITUDINAL SEAM

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE044

Accept

30-RC-21B

nmary/ID No. J410

Component ID

12LU-1

Component Description LONGITUDINAL SEAM

Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE047

Accept

110420

12LU-2

LONGITUDINAL SEAM

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE048

Accept

30-RC-22A

Summary/ID No. 111400

Component ID

12LU-1

Component Description LONGITUDINAL SEAM

Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE051

Accept

111410

12LU-2

LONGITUDINAL SEAM

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE052

Accept

30-RC-22B

Summary/ID No. 112410

Component ID

12LU-1

Component Description LONGITUDINAL SEAM Comments

UT PERFORMED IN LIEU OF MT AS ALLOWED BY

NRC RELIEF REQUEST.

m Results

99VE055



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

112420

12LU-2

LONGITUDINAL SEAM

UT PERFORMED IN LIEU OF MT AS ALLOWED BY

NRC RELIEF REQUEST.

Exam Results

99VE056

Accept

42-RC-21

Summary/ID No. 107030

Component ID

Component Description

Comments

LONGITUDINAL SEAM UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE037

2LD-1

Accept

107040

2LD-2

LONGITUDINAL SEAM

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE038

Accept

42-RC-22

Summary/ID No. 108030

Component ID 2LD-1

Component Description **LONGITUDINAL SEAM** Comments

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE041

Accept

108040

2LD-2

LONGITUDINAL SEAM

UT WAS PERFORMED IN LIEU OF MT AS ALLOWED

BY NRC RELIEF REQUEST.

Exam Results

99VE042

Accept

REACTOR COOLANT SYSTEM - 30-RC-21B

Summary/ID No. 110330

Component ID

10LD-2

Component Description LONGITUDINAL SEAM Comments

Exam Results

99BU019

Accept

99BM022

ATTACHMENT 1

Inservice Inspection Report

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-J/B9.21

2-CV-2018

Summary/ID No.

Component ID

Component Description

Comments

155220

18

Component Descript

PIPE TO PIPE

TEE TO PIPE

Exam Results

99BP021

Accept

2-LD-2004

Summary/ID No.

Component ID

Component Description

Comments

161320 Exam Results

99BP171

Accept

9S-2002

_ummary/ID No. 138080 Component ID

Component Description
ELBOW TO PIPE

Comments

Exam Results

99BP012

Accept

EXAM CATEGORY / ITEM NUMBER:

B-L-1 / B12.10

RCP-21B

Summary/ID No.

Component ID

Component Description

RCP-21B PUMP CASING WELDS

Comments

Comments

162400 Exam Results 21B

99BP037

Accept

99BV114 Reject

Evaluation Disposition: Acceptable

RCP-22A

Summary/ID No. 162600 Component ID

22A

Component Description

RCP-22A PUMP CASING WELDS

Exam Results

-

Accept

99BP013 99BV013

Accept

RCP-22B

Summary/ID No. 2800

Component ID

22B

Component Description

RCP-22B PUMP CASING WELDS

Comments

am Results

99BV012

Accept

99BP011



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-L-2 / B12.20

REACTOR COOLANT PUMPS

Summary/ID No. 162810

Component ID RCP-22B

Component Description

PUMP CASING INTERNAL SURFACE

Comments

Exam Results

99BV388

Accept

EXAM CATEGORY / ITEM NUMBER:

B-N-1 / B13.10

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

Summary/ID No. 101340

Component ID **VESSEL INTERIOR** **Component Description VESSEL INTERIOR**

Comments

Exam Results

99VE061

Accept

_XAM CATEGORY / ITEM NUMBER:

B-N-2 / B13.50

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

Summary/ID No.

Component ID

Component Description INTERIOR ATTACHMENTS WITHIN BELTLINE REGION

Comments

Exam Results

101345

99VE030

Accept

EXAM CATEGORY / ITEM NUMBER:

B-N-2 / B13.60

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

Summary/ID No.

Component ID

Component Description INTERIOR ATTACHMENTS BEYOND BELTLINE REGION Comments

Exam Results

101350

99VE031

Accept

EXAM CATEGORY / ITEM NUMBER:

B-N-3 / B13.70

INTERIOR SURFACES AND CORE SUPPORT STRUCTURES

Summary/ID No. 101360

Component ID

Component Description

CORE SUPPORT STRUCTURE

Comments

Exam Results

99VE032

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-O / B14.10

CRD- REACTOR PRESSURE VESSEL

Summary/ID No.

Component ID

Component Description

Comments

102180

CRD HOUSINGS

PEREPHERAL CRD HOUSING

EXAMINED CRDs IN ACCORDANCE WITH ISI

RELIEF REQUEST #3.

Exam Results

99BP022

Accept

EXAM CATEGORY / ITEM NUMBER:

B-P/B15.11

REACTOR VESSEL PRESSURE RETAINING BOUNDARY

Summary/ID No. 165010

Component ID RV-HT-1

Component Description
HYDROSTATIC TEST

Comments

Exam Results

99BV339

Accept

EXAM CATEGORY / ITEM NUMBER:

B-P / B15.31

STEAM GENERATOR PRESSURE RETAINING BOUNDARY

Summary/ID No.

Component ID SG-HT-1

Component Description
HYDROSTATIC TEST

Comments

165050 Exam Results

99BV343

Accept

EXAM CATEGORY / ITEM NUMBER:

B-P / B15.41

HEAT EXCHANGER PRESSURE RETAINING BOUNDARY

Summary/ID No.

Component ID HX-HT-1 Component Description
HYDROSTATIC TEST

Comments

Exam Results

165070

99BV344

Accept

EXAM CATEGORY / ITEM NUMBER:

B-P / B15.51

PIPING PRESSURE RETAINING BOUNDARY

PP-HT-1

Summary/ID No. 165090

Component ID

Component Description
HYDROSTATIC TEST

Comments

Exam Results

99BV345



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

B-P / B15.61

PUMP PRESSURE RETAINING BOUNDARY

Summary/ID No. 165110

Component ID PMP-HT-1

Component Description HYDROSTATIC TEST

Comments

Exam Results

99BV346

Accept

EXAM CATEGORY / ITEM NUMBER:

B-P / B15.71

PRESSURE RETAINING BOUNDARY

Summary/ID No. 165130

Component ID VLV-HT-1

Component Description HYDROSTATIC TEST

Comments

Exam Results

99BV347

Accept

__KAM CATEGORY / ITEM NUMBER:

C-A / C1.10

REGENERATIVE HEAT EXCHANGER

Summary/ID No. 202800

Component ID

Component Description

Comments

RHE-16

TEE TO SHELL

COVERAGE LIMITED DUE TO CONFIGURATION.

Exam Results

99BU041

EXAM CATEGORY / ITEM NUMBER:

C-A / C1.20

REGENERATIVE HEAT EXCHANGER

Summary/ID No. 202750

Component ID

RHE-15

Component Description

TEE TO CAP

END CAP WELD LIMITED DUE TO CONFIGURATION.

Exam Results

99BU040

Accept

Accept

EXAM CATEGORY / ITEM NUMBER:

C-A / C1.30

REGENERATIVE HEAT EXCHANGER

Summary/ID No.

Component ID

Component Description

Comments

203200

RHE-23

TUBE SHEET TO REDUCER

COVERAGE LIMITED DUE TO REDUCER CONFIGURATION ON DOWNSTREAM SIDE.

Exam Results

99BU039



99BU064

Accept

ATTACHMENT 1

Inservice Inspection Report 3/3/2

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203 1. Owner: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702 2. Plant: 3. Plant Unit: 4. Owner Certificate of Authorization(If Req.) N/A 5. Commercial Service Date: 04/01/1977 6. National Board Number for Unit: 20912 **EXAM CATEGORY / ITEM NUMBER:** C-C / C3.20 14-SC-2003 Summary/ID No. Comments Component ID **Component Description** 272950 R-6X INTEGRAL ATTACHMENT Limited exam due to configuration and interference. **Exam Results** 99BP207 Accept 16-FW-2018 Summary/ID No. Component ID **Component Description** Comments INTEGRAL ATTACHMENT 291700 H-1 UT WAS PERFORMED TO SUPPLEMENT SURFACE EXAM FOR COVERAGE. Exam Results 99BM015 Accept **JN STEAM SYSTEM** Summary/ID No. Component ID **Component Description Comments** H-8 INTEGRALLY WELDED ATTACHMENT 287750 **Exam Results** 99BU015 Accept 288750 H-5 INTEGRALLY WELDED ATTACHMENT Limited due to configuration. **Exam Results** 00011046

	99BU016	Accept		•
SAFETY INJECT	NON SYSTEM	Л		
<u>Summary/ID No.</u> 216250	D. Component ID R-18		Component Description INTEGRALLY WELDED ATTACHM	Comments
Exam Results	99BU053	Accept		
216450	R-14		INTEGRALLY WELDED ATTACHM	Limited due to pipe clamp configuration.
Exam Results	99BU054	Accept		
217250	R-19		INTEGRALLY WELDED ATTACHM	UT was performed to supplement surface exam.
Exam Results	99BU061	Accept		•
223400 am Results	H-18		INTEGRALLY WELDED ATTACHM	UT to supplement surface exam.
#III Flesure	99BU059	Accept		
231000	H-3		INTEGRALLY WELDED ATTACHM	UT to supplement surface exam.
Exam Results				



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD, 21203

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

Comments

2. Plant:

2

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

<u>N/A</u>

5. Commercial Service Date:

PRESSURE RETAINING BOUNDARY

Component ID

Accept

PV-SLT-1

99BV351

Summary/ID No.

Exam Results

293950

04/01/1977

Component Description

SYSTEM LEAKAGE TEST

6. National Board Number for Unit:		er for Unit:	20912	
	99BU065	Accept		
237125	H-6		INTEGRALLY WELDED ATTACHM	
Exam Results	99BU052	Accept		
239625	H-13	· · · · · · · · · · · · · · · · · · ·	INTEGRALLY WELDED ATTACHM	UT WAS PERFORMED TO SUPPLEMENT PT TO ATTEMPT TO ACHIEVE GREATER COVERAGE.
Exam Results				TO NOTICE STEEL OF LANGE.
	99BU051	Accept	•	
245375 Exam Results	H-12, R-10	0	INTEGRALLY WELDED ATTACHM	
	99BU057	Accept	•	
246025 am Results	H-9, R-7		INTEGRALLY WELDED ATTACHM	
	99BU060	Accept		
246575	H-1, R-1		INTEGRALLY WELDED ATTACHM	
Exam Results	9 9BU056	Accept		
EXAM CATE	GORY / ITE	M NUMBER:	C-F-1 / C5.30	
2-\$1-2035				
Summary/ID No. 256300	Componen 3	t ID	Component Description ELBOW TO PIPE	Comments
Exam Results	00777000		_	
	99BP206	Accept		
	2		PIPE TO ELBOW	
56250 xam Results			,	

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

C-H / C7.30

PRESSURE RETAINING BOUNDARY

Summary/ID No.

Component ID

PP-SLT-1

Component Description
SYSTEM LEAKAGE TEST

Comments

294050 Exam Results

99BV352

Accept

EXAM CATEGORY / ITEM NUMBER:

C-H / C7.50

PRESSURE RETAINING BOUNDARY

Summary/ID No. 294150

Component ID PMP-SLT-1

Component Description
SYSTEM'LEAKAGE TEST

Comments

Exam Results

99BV353

Accept

_XAM CATEGORY / ITEM NUMBER:

C-H / C7.70

PRESSURE RETAINING BOUNDARY

Summary/ID No.

Component ID VLV-SLT-1 Component Description
SYSTEM LEAKAGE TEST

Comments

Exam Results

294250

99BV354



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

E-A / E1.12

CONTAINMENT INTERIOR SURFACE

Summary/ID No. B10800 Component ID

B10800

Component Description

INTERIOR LINER

Comments

COATING WAS RE-EXAMINED AFTER COATING

REPAIR AND FOUND ACCEPTABLE.

Exam Results

99BV215

Reject Accept

99BV255

B11700

B11700

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL

WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV233

Reject

99BV222 Accept

B12000

B12000

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED

COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV234

Reject

99BV223

Accept

B12100

B12100

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL

WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV224

Accept

99BV235

Reject

B12300

B12300

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL

WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV225

Accept Reject

99BV236

B12600

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL

WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

1600



Inservice Inspection Report 3/3/2

1. Owner:
2. Plant:

.am Results

99BV297

99BV243

Accept

Reject

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD, 21203

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:4. Owner Certificate of Authorization(If Req.)5. Commercial Service Date:6. National Board Number for Unit:			2 <u>N/A</u> <u>04/01/1977</u> 20912	•
	99BV237 99BV226	Reject Accept		
B12700	B12700	1	NTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
Exam Results				
	99BV238	Reject		
	99BV227	Accept		
B13300	B13300	•	NTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
m Results				
	99BV239	Reject		
	99BV228	Accept		
B13400	B13400		NTERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.
Exam Results				
	99BV240	Reject		
	99BV288	Accept		
B13500	B13500	11	NTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
Exam Results				
	99BV229	Accept		
	99BV241	Reject		
B13600	B13600	11	NTERIOR LINER	EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION REQUIRED.
Exam Results				
	99BV221	Accept		
	99BV242	Reject		
₹13800	B13800	II.	ITERIOR LINER	AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

Inservice Inspection Report

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

B14700

B14700

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE

REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV230

Accept

99BV244

Reject

B16400

B16400

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED

COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV231

Accept Reject

99BV245

.6800

B16800

INTERIOR LINER

EXAMINATION PERFORMED ON AREAS OF FAILED

COATINGS DURING THE GENERAL VISUAL WALKDOWN FOR CONTAINMENT. AREAS WERE REPAIRED AND ACCEPTED. NO FURTHER ACTION

REQUIRED.

Exam Results

99BV232

Accept

99BV246

Reject

B17600

B18200

B17600

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV247

Reject

99BV289 Accept

B18200

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV248 99BV290

Reject

Accept

B18500

B18500

INTERIOR LINER

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND

ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV249

Reject

99BV291

B18600

Accept

AREA WAS REEXAMINED AND FOUND

ACCEPTABLE AFTER COATING REPAIR.

9600

99BV292

Accept

99BV250

Reject



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

B19000

B19000

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND

Exam Results

99BV294 99BV252

ACCEPTABLE AFTER COATING REPAIR.

B19300

B19300

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV295

Accept

Accept

Reject

99BV253 Reject

B19400

B19400

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND

ACCEPTABLE AFTER COATING REPAIR.

Exam Results

99BV296

Accept Reject

99BV254

CONTAINMENT SURFACE

Summary/ID No.

B10105

Component ID LC-4 TO LC-5

Component Description LEAK CHASE CHANNEL

Comments

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533.

Exam Results

99BV151

Accept

99BV015 Reject

Evaluation Disposition: Acceptable

B10110

LC-5 TO LC-6

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV016

Reject

99BV152 Accept

CONTAINMENT SURFACES

Summary/ID No. B10115

Component ID

LC-6 TO LC-7

Component Description

LEAK CHASE CHANNEL

Comments

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV017

Reject

99BV153

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD, 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

B10120

LC-7 TO LC-8

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV018

Reject

99BV154 Acc

Accept

B10125

10130 ٦

LC-8 TO LC-9

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV019

Reject

99BV155 Accept

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN

ENGINEERING. REF ES199900382.

Exam Results

99BV020

Reject

99BV156

Accept

B10135

LC-10 TO LC-11

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV021

Reject

99BV158

Accept

B10140

LC-11 TO LC-12

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV159

Accept

99BV022

Reject

B10145

LC-12 TO LC-13

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV160

Accept

99BV023

Reject



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

<u>2</u>

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

B10150

LC-13 TO LC-14

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN

ENGINEERING. REF ES199900382.

Exam Results

99BV024

99BV161

Reject Accept

B10155

LC-14 TO LC-15

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV025

Reject

99BV162

Accept

10205 ت

LC-15 TO LC-16

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV163

Accept

99BV026

Reject

B10210

LC-16 TO LC-17

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV164

Accept

99BV027

Reject

B10215

LC-17 TO LC-18

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV028

Reject

99BV166

Accept

B10220

LC-18 TO LC-19

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV029

Reject

99BV167

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Reg.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

B10225

LC-19 TO LC-20

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV030

Reject

99BV168 A

Accept

B10230

LC-20 TO LC-21

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV170

Accept

99BV031 Reject

10235

LC-21 TO LC-22

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV173

Accept

99BV032

Reject

B10240

LC-22 TO LC-23

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV033

Reject

99BV174

Accept

B10245

LC-23 TO LC-24

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV176

Accept

99BV034

Reject

B10250

LC-24 TO LC-25

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV179

Accept

99BV035

Reject



Inservice Inspection Report

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

2

4. Owner Certificate of Authorization(If Req.)

=

5. Commercial Service Date:

N/A

o. Commercial Cervice Date.

04/01/1977

6. National Board Number for Unit:

20912

B10255

LC-25 TO LC-26

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV182

Accept Reject

99BV036

B10260

LC-26 TO LC-27

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV037

Reject

99BV185

Accept

`10265

LC-27 TO LC-28

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV038

Reject

99BV187

Accept

B10270

LC-28 TO LC-29

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV188

Accept

99BV039

Reject

B10305

LC-29 TO LC-30

LEAK CHASE CHANNEL

AREA WAS ACCEPTED AS-IS BY DESIGN

ENGINEERING VIA ES199900382. CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533.

Exam Results

99BV189

Accept

99BV061

Reject

B10310

LC-30 TO LC-31

LEAK CHASE CHANNEL

AREA WAS ACCEPTED AS-IS BY DESIGN

ENGINEERING VIA ES199900382. CORRECTIVE

ACTIONS ARE BEING TRACKED UNDER IR3-022-533.

Exam Results

99BV040

Reject

99BV190

Accept

LC-31 TO LC-32

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

1315



99BV199

Accept

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner: Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203 2. Plant: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702 3. Plant Unit: 4. Owner Certificate of Authorization(If Req.) N/A 5. Commercial Service Date: 04/01/1977 6. National Board Number for Unit: 20912 99BV041 Reject 99BV191 Accept CORRECTIVE ACTIONS ARE BEING TRACKED B10320 LC-32 TO LC-33 LEAK CHASE CHANNEL UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV042 Reject 99BV192 Accept CORRECTIVE ACTIONS ARE BEING TRACKED B10325 LC-33 TO LC-34 **LEAK CHASE CHANNEL** UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV193 Accept 99BV043 Reject B10330 LC-34 TO LC-35 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533 AND IR3-022-546. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV196 Accept 99BV044 Reject B10335 LC-35 TO LC-36 **LEAK CHASE CHANNEL** CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV045 Reject 99BV197 Accept B10340 LC-36 TO LC-37 **LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED** UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV046 Reject 99BV198 Accept B10345 LC-37 TO LC-38 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. <u>∡am Results</u> 99BV047 Reject



Inservice Inspection Report 3/3/2

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203 1. Owner: Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702 2. Plant: 3. Plant Unit: 4. Owner Certificate of Authorization(If Req.) N/A 5. Commercial Service Date: 04/01/1977 6. National Board Number for Unit: 20912 B10350 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED **LC-38 TO LC-39** UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV200 Accept 99BV048 Reject B10355 LC-39 TO LC-40 LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV201 Accept 99BV049 Reject **710360** LC-40 TO LC-41 **LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED** UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV202 Accept 99BV050 Reject B10405 LC-41 TO LC-42 **LEAK CHASE CHANNEL CORRECTIVE ACTIONS ARE BEING TRACKED** UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382. **Exam Results** 99BV203 Accept 99BV051 Reject

Exam Results

B10410

99BV204 Accept

LC-43 TO LC-44

99BV052

LC-42 TO LC-43

Reject

LEAK CHASE CHANNEL

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING. REF ES199900382.

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

B10415

99BV053 Reject 99BV205 Accept



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

6. National Board Number for Unit:

04/01/1977 20912

B10420

LC-44 TO LC-45

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV054

99BV206

Reject Accept

B10425

LC-45 TO LC-46

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV062

Reject

99BV207

Accept

710430

B10435

LC-46 TO LC-47

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV208

Accept Reject

99BV055

LC-47 TO LC-48

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV056

Reject

99BV209

Accept

B10440

LC-48 TO LC-1

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND

ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV057

Reject

99BV210

Accept

B10445

LC-1 TO LC-2

LEAK CHASE CHANNEL

AREA WAS ACCEPTED AS-IS BY DESIGN

ENGINEERING VIA ES199900382. CORRECTIVE

ACTIONS ARE BEING TRACKED UNDER IR3-022-533.

Exam Results

99BV058

Reject

99BV211

Accept

J450

LC-2 TO LC-3

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382. Exam Results



Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization (If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

99BV059

Reject

99BV212

Accept

B10455

LC-3 TO LC-4

LEAK CHASE CHANNEL

CORRECTIVE ACTIONS ARE BEING TRACKED

UNDER IR3-022-533. CONDITION WAS FOUND ACCEPTABLE AS-IS BY DESIGN ENGINEERING.

REF ES199900382.

Exam Results

99BV060

Reject

99BV213

Accept

CONTINMENT INTERIOR SURFACE

Summary/ID No.

Component ID

Component Description

Comments

B18800

B18800

INTERIOR LINER

AREA WAS REEXAMINED AND FOUND ACCEPTABLE AFTER COATING REPAIR.

vam Results

99BV293

Accept

99BV251

Reject

EXAM CATEGORY / ITEM NUMBER:

E-D / E5.30

CONTAINMENT MOISTURE BARRIER

Summary/ID No. B10005

Component ID

MB-1

Component Description

MOISTURE BARRIER

Comments

PRESERVICE EXAMINATION OF NEW MOISTURE BARRIER IS ACCEPTABLE UNDER NDE REPORT 99BV150. CORRECTIVE ACTIONS BEING TRACKED

UNDER IR3-022-533.

Exam Results

99BV150

Accept

99BV113 Reject

Evaluation Disposition: Acceptable

EXAM CATEGORY / ITEM NUMBER:

E-G / E8.10

Containment

Summary/ID No. B10920

Component ID Penetration 13 **Component Description** Blind Flange Bolting

Comments

Exam Results

99BV325

Accept

B11545

Penetration 14

Blind Flange Bolting

Exam Results

99BV326

ATTACHMENT 1

Inservice Inspection Report 3/3/2

1. Owner:

Baltimore Gas and Electric Company, P.O. Box 1475, Baltimore, MD. 21203

2. Plant:

Calvert Cliffs Nuclear Power Plant, 1650 Calvert Cliffs Parkway, Lusby, MD., 20657-4702

3. Plant Unit:

4. Owner Certificate of Authorization(If Req.)

N/A

5. Commercial Service Date:

04/01/1977

6. National Board Number for Unit:

20912

EXAM CATEGORY / ITEM NUMBER:

N/A / ----

REACTOR COOLANT PUMPS

Summary/ID No.

Component ID

Component Description

Comments

162840

Accept

PUMP MOTOR FLYWHEEL FLYWHEEL #3S-77P108

Exam Results

99BU047

99BU046

Accept

99BU048

Accept

99BU049

Accept

99BM111 99BU045

EXAM CATEGORY / ITEM NUMBER:

Accept Accept

RG1.14/---

'P-21A

Jummary/ID No. 162240

21A

Component ID

Component Description

RCP-21A FLYWHEEL

Comments

Exam Results

99BU004

Accept

ENCLOSURE (2)

BALTIMORE GAS AND ELECTRIC COMPANY
INSERVICE INSPECTION SUMMARY REPORT
FOR CALVERT CLIFFS UNIT 2

ASME BOILER AND PRESSURE VESSEL CODE SECTION XI, FORM NIS-2

201000 00	T ===:	T	<u> </u>	1		
MWO No.	RRNo.	UEI		Section XI CI		
2199302533	94-2-026	2#GC5-2008	04/13/1999	·		05/17/1999
2199503843	95-2-066	2#DC2-2002	11/09/1995			03/31/1999
2199604119	96-2-075a	2PUMPRC21A(s)	12/09/1996			08/26/1998
2199604119	96-2-075b	2PUMPRC21A	12/09/1996			05/19/1999
2199702940	96-2-081	2CKVSI-247	12/09/1996		-	07/09/1999
2199505020	97-2-129	2#HC-7	06/17/1997		True	
2199701412	97-2-130	2HVSI-400	06/18/1997	Two	True	10/09/1997
2199702802	97-2-132	2HVCVC-361	09/03/1997	Two	True	09/03/1997
2199705361	97-2-133	2HVSI-400	09/17/1997	Two	True	10/07/1998
2199800254	98-2-001	2CKVSI-414	01/26/1998	Two	True	04/29/1998
2199704055	98-2-004	2RV200	04/20/1998	One	True	06/07/1999
2199704057	98-2-005	2RV201	04/20/1998	One	True	05/26/1999
2199800340	98-2-011	2CV4013	04/14/1998	Two	True	06/15/1999
2199800339	98-2-013	2CV4011	04/16/1998	Two	True	06/01/1999
2199802320	98-2-094	2PZVRC21	08/04/1998	One	True	11/11/1998
2199703922	98-2-147	2CKVFW-133	09/09/1998	Two	True	06/09/1999
2199604869	98-2-165	Snubber 2-52-20A	01/12/1999	Two	True	04/12/1999
2199800573	98-2-166	Snubber 2-11-16A	01/12/1999	Two	True	03/18/1999
2199704491	98-2-169	Snubber 2-36-05	01/12/1999		True	03/31/1999
2199800579	98-2-170	Snubber 2-45-01A	01/12/1999		True	04/12/1999
2199800581	98-2-171	Snubber 2-52-05	01/12/1999		True	04/12/1999
2199800582	98-2-172	Snubber 2-52-09	01/12/1999		True	04/12/1999
2199800587	98-2-176	Snubber 2-52-20	01/12/1999		True	04/12/1999
2199704515	98-2-178	Snubber 2-52-26	01/12/1999		True	04/01/1999
2199800589	98-2-179	Snubber 2-52-34	01/12/1999		True	03/29/1999
2199800590	98-2-180	Snubber 2-52-38	01/12/1999		True	03/20/1999
2199800591	98-2-181	Snubber 2-52-43	01/13/1999		True	04/10/1999
2199800592	98-2-182	Snubber 2-52-44	01/13/1999		True	03/29/1999
	98-2-183	Snubber 2-52-46	01/13/1999	·	True	03/27/1999
	98-2-184	Snubber 2-52-50A	01/13/1999		True	03/27/1999
	98-2-185	Snubber 2-52-54	01/13/1999		True	03/27/1999
	98-2-189	Snubber 2-60-12	01/13/1999		True	03/23/1999
	98-2-191	Snubber 2-61-03	01/13/1999		True	04/01/1999
	98-2-192	Snubber 2-61-04	01/13/1999		True	04/10/1999
	98-2-193	Snubber 2-63-02	01/13/1999		True	03/29/1999
	98-2-194	Snubber 2-63-19	01/13/1999			04/03/1999
	98-2-195	Snubber 2-63-19	01/13/1999			04/03/1999
	98-2-196	Snubber 2-63-25	01/13/1999			04/03/1999
	98-2-197	Snubber 2-63-26		·····		
	98-2-198	Snubber 2-64-09	01/13/1999			03/31/1999
	98-2-199	Snubber 2-64-12	01/14/1999			04/10/1999
	98-2-200	Snubber 2-64-12A	01/14/1999			04/09/1999
		·				04/09/1999
	98-2-201	Snubber 2-64-15	01/14/1999			03/20/1999
	98-2-202	Snubber 2-64-18	01/14/1999			04/12/1999
	98-2-203	Snubber 2-64-19	01/14/1999			04/10/1999
	98-2-204	Snubber 2-64-25	01/14/1999			03/29/1999
	98-2-205	Snubber 2-64-26	01/14/1999			04/10/1999
	98-2-206	Snubber 2-64-27	01/14/1999			04/09/1999
	98-2-207	Snubber 2-64-28A	01/14/1999			04/10/1999
		Snubber 2-64-30	01/14/1999			03/20/1999
		Snubber 2-64-30A	01/14/1999		True	03/20/1999
		Snubber 2-64-38	01/14/1999	One	True	03/29/1999
2199704513	98-2-211	Snubber 2-83-34	01/14/1999	Гwо	True	04/10/1999

MWO No.	RRNo.	UEI	Planner Dat	Section XI CI	NIS-2 Wri	Review Date
2199704519	98-2-212	Snubber 2-64-43	01/14/1999			04/28/1999
2199704517	98-2-213	Snubber 2-83-33	01/14/1999	Two	True	04/10/1999
2199800633	98-2-214	Snubber 2-83-16A	01/14/1999	Two	True	04/16/1999
2199800602	98-2-215	Snubber 2-83-02A	01/14/1999	Two	True	04/14/1999
2199800603	98-2-216	Snubber 2-83-03	01/14/1999	Two	True	04/12/1999
2199800606	98-2-217	Snubber 2-83-04A	01/14/1999	Two	True	04/16/1999
2199800604	98-2-218	Snubber 2-83-15	01/14/1999	Two	True	03/19/1999
2199802432	98-2-252b	2CKVSI-330	04/03/1999	Two	True	06/08/1999
2199802433	98-2-253b	2CKVSI-340	04/03/1999	Two	True	05/25/1999
2199700924	98-2-254a	2PUMPRC21B(s)	11/05/1998	One	True	07/12/1999
2199700926	98-2-255a	2PUMPRC22B(s)	03/16/1999	One	True	07/14/1999
2199700926	98-2-255b	2PUMPRC22B	11/11/1998	One	True	07/13/1999
2199801841	98-2-275a	2CKVSI-434	12/18/1998	Two	True	07/09/1999
2199801841	98-2-275b	2#GC1-2003	12/18/1998	Two	True	07/09/1999
2199603215	98-2-276a	2CKVSI-446	12/18/1998	Two	True	07/09/1999
2199603215	98-2-276b	2#GC1-2002	12/18/1998	Two	True	07/09/1999
2199703971	99-2-012	2ERV402	03/20/1999	One	True	07/13/1999
2199403477	99-2-014	2CKVSI-227	03/02/1999	One	True	07/13/1999
2199900912	99-2-016	2#EB12-2007	03/20/1999	Two	True	05/17/1999
2199901038	99-2-025	2#CC4-2009-R9	04/03/1999	One	True	06/09/1999
2199705517	99-2-028	2CV3939	04/07/1999	Two	True	06/09/1999
2199802244	99-2-036	2PUMPSILPSI21	04/22/1999	Two	True	07/01/1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric C	ompany		Date: 05/1	7/199	9 [°]		
		(name)			Date.				
G&E Building, F	P.O. Box 1	475, Baltimore	e, Maryland	1, 21203	Sheet 1 of 2				
	· · · · · · · · · · · · · · · · · · ·	(address)			→ London Company of the Company				
2. Plant:	Calvert (Cliffs Nuclear P	ower Plan	t	Unit: Tv	10	÷		
Z. I failt.		(name)			Omt.		• • •		
1650 Calvert Cli	iffs Parkw	av: Lusby. Mai	rviand 2	0657-4702	R&R No. 9	4-2-02	26, MWO No.	. 219930253	
		(address)					P.O. no., job no., etc	·····	
	. Belti	more Gas Elec	tria NED		Type Code S	ymbol S	Stamp: N/A	· ·	
3. Work Performed	by: Daiti	(name)	arc, NED		Authorization				
· ·		(nanc)			Exp Date: N	/A			
CCNPP Dept, 16	550 Calver	t Cliffs Parkwa	y, Lusby,	Md. 20657	Section XI C		Two		
		(address)	 						
4. Identification of S	System: Sy	stem Number05	2 Syster	n Name: Saf	ety injection	<u> </u>	<u> </u>		
			<u> </u>	·			• .		
5. (a) Applicable Con	nstruction Co	de and Class: A	SME B31.7	7 1969 Editic	n, Summer	1971	Add; Class	Two	
(b) A == 1! == 1.1 . O	. 327 57 1 6 1			4000	Edition Co.		00 4 4 4 4		
(b) Applicable Sec	X XI Ed. for	Repairs/Replaceme	nt'	1983	Edition, Su	mmer	83 Addenda	L	
6. Identification of (Components	Repaired or Replac	ed and Repla	cement Compon	ents:				
•	-						Damainad	ASME Code	
ame of N	lame of	Manufacturers	National	0	her	Year	Repaired, Replaced, or	Stamped	
- 12 1 1111 TT	nufacturer	Serial Number	Board No.		nei fication	Built	Replacement	(Yes or No)	
Piping System	Bechtel	2"GC5-2008	NA	23 (03/200 5	mt/Dantuniant	1977	Destroy	NY-	
	rgy Steel &	80622-GX	NA.	2MOV399 Suppo Plate, Steel 1/2 in		1993	Replaced Replacement	No No	
	apply Co.		. ••••	Carbon Steel	. 110.112. 011-00,	2775	reparement	. 110	
	rgy Steel & 1pply Co.	80622-GX	NA	Angle, 3 in. X 3 in ASME SA-36, Ca	•	1993	Replacement	No	
Nut All	ied Group	25058	N/A	Nut, Heavy Hex, SA-194 Gr. 2H	1/2 in. X 13 TPI,	19 98	Replacement	No	
7 Description of We	netre		and the state of the same	, 0.:-174 011 211			•		
7. Description of Wo		Controllet in acco	الماديد مصصحات	*	00.000			, , .	
7. Description of Wo Modify 2MOV399		Restraint in acco	rdance witi	*	09-000.		· .		
•			rdance with	n ES1998008 —	09-000.	ng Press	sure: 🕮		

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

We certify that the statements made in this report are correct an the ASME Code, Section XI.	liance d that this Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A	
Signed: Signed: Swner or Owner's Designee, Title	A.R. Zimmerman Welding Engineer Date: 05/17/1999
I, the undersigned, holding a valid commission issued by the Nationa and the State of Maryland and employed by Factory Mutual Insurance Components described in this Owner's Report during the period best of my knowledge and belief, the Owner has performed examination Owner's Report in accordance with the requirements of the ASME Cod By signing this certificate neither the Inspector nor his employer the examinations and corrective measures described in this Owner's Remployer shall be liable in any manner for any personal injury or proper connected with this inspection.	al Board of Boiler and Pressure Vessel Inspectors Co. of Norwood, MA. have inspected the 8-99 to 4-18-99, and state to the as and taken corrective measures described in this e, Section XI. makes any warrant, expressed or implied, concerning port. Furthermore, neither the Inspector nor his rty damage of a loss of any kind arising from or
Date: May 18, 1999	UBBZZG ANE, MD647 National Board, State, and Endorsements

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric C	ompany		Date: 03/3	31/199	9	
00= 0		(name)				÷,		
G&E Build	ling, P.O. Box 1	475, Baltimore	e, Marylan	d, 21203	Sheet 1 of 2			
		(address)						
2. Plant:	Calvert (Cliffs Nuclear F	Power Plan	nt ·	Unit: Tv	VO		
		(name)						
1650 Calve	ert Cliffs Parkw	ay; Lusby, Ma	ryland., 2	0657-4702	R&R No. 9	5-2-0	66, MWO No	. 219950384
· · · · · · · · · · · · · · · · · · ·		(address)					P.O. no., job no., et	
3. Work Perf	ormed by: Balti	more Gas Elec	tric. NED		Type Code S	ymbol :	Stamp: N/A	
J. WOIRICH	ornica by.	(name)			Authorization	n No.:	N/A	•
CCMPP Do	mt 4050 Och	1 O!'' - D. 1			Exp Date: N			•
CCNPP De	pt, 1650 Calver		y, Lusby,	Md. 20657	Section XI C	lass:	Two	
4 Idamicani		(address)					•	
4. Identificati	on of System: Sy	stem NumberU	System	m Name: Saf	ety injection	<u> </u>		
5. (a) Applicat	ble Construction Co	de and Class: A	SME B31.	7 1969 Editio	on, Summer	1971	Add; Class	Two
(b) Applicat	ole Sect XI Ed. for I	Repairs/Replaceme	nt	1983	Edition, Sur	mmer	83 Addenda	:
Identification	on of Components I	Repaired or Replac	ed and Repla	cement Compon	ents:			ASME
3 .							Repaired,	Code
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.		her fication	Year Built	Replaced, or Replacement	Stamped (Yes or No)
Piping System	Bechtel	DC2-2002	N/A	Safety Injection I Refueling Water		1977	Replaced	No
Pipe	Sandvik Steel Inc.	F-5630	N/A	Pipe, 2 in. Sch. 80 SA-376, Type 304	, Stainless Steel,	1977	Replacement	No
Elbow	Bechtel	F-5631	N/A	Elbow, 90 deg., 2' Socketweld, SA-1 Stainless Steel	' , 3 000#,	1979	Replacement	No
Reducer Insert	LADISH CO.	F-8588	N/A	Reducer Insert, 2	"x1", 3000#,	1973	Replacement	No.
•	•	•	•	Socketweld, SA-1 Stainless Steel	82, F304			
7 Description	-£3371	. • • • • • • • • • • • • • • • • • • •					•	
7. Description								
replace Z° [ecirculation pipi	ng adjacent to #	722 HPSI p	ump.			•	
8. Tests Condu	Hydrost Pressure	atic: 🔯 :: <u>1250</u> psi.	Pneumatic Tes	: No t Temperature:	ominal Operation 68 Deg		sure:	

FORN IIS-2 (Back)

9. Remarks:

A Section XI System Hydrostatic Test of the affected compor conditions listed in section 8. of this report. A Section X Surfa performed to satisy Section XI Pre-Service Requirements. Due the pump suction piping being non-isoiable from the outlet piping, the System Hydrostatic Test required pressure is 625 psi. The HPSI pump was run to provide a pressure of approximately 1200 psi. A Section XI Surface Examination was performed to satisfy Pre-Service requirements.

Contificate of Compliance
Certificate of Compliance We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 03/31/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period

As Required Required by the Provisions of the ASME Code Section XI

					4				
1. Owner:	B altimore	Gas Electric C	ompany		Date: 8	126/98			
2. 000101.		(name)							
G&E Build	ling, P.O. Box 14	475, Baltimore	, Marylan	d, 21203	Sheet 1 of 2				
		(address)				•		• .	
2. Plant:	Calvert C	Cliffs Nuclear P	ower Plan	t	Unit: T	NO			•
1650 Calv	ert Cliffs Parkwa	` '	vland 2	0657-4702	R&R No. 9	96- 2-0 7	′5a, MWO No	o. 2199604	11
		(address)	<i></i>				P.O. no., job no., etc		_
3. Work Per	formed bur Baltir	nore Gas Elect	ric, NED	· ,	Type Code S	ymbol S	tamp: N/A		:
J. WOIR FCI	ionned by.	(name)			 Authorization 	•	<u>N/A</u>		
					Exp Date: 1				
CCNPP De	ept, 1650 Calver		y, Lusby,	Md. 20657	_ Section XI C	lass: _	One		
		(address)	_						
4. Identificat	tion of System: Sys	tem Number _ 06	4 Syster	n Name: R	eactor Coola	nt Sys	tem.		
dentificat	tion of Components I Name of Manufacturer	Repairs/Replaceme		acement Comp	33 Edition, Succession	ımmer Year Built	83 Addenda Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)	
RCP Seal	Sulzer Bingham Inc.	1C865	Board No.		Coolant Pump	1988	Replaced	Yes	
ACI DEM	Suzer Dingmin Inc.			Mechanical Se		1700	Replaced		
Seal	Sulzer Bingham Inc.	13645-MX 1C868	N/A	Seal, Cartridg 875B-3V Com Bingham per l		1988	Replacement	Yes	•
7. Descriptio	on of Work:				•				
-	Plan is to allow re	nlacement of m	echanical	seal on # 2	1A Reactor C	oolant	Pump as nec	ressan	
	as rebuilt under l						. 41116 45 116		
8. Tests Con	ducted: Hydrost	atic:	Pneumati	c: 🗖	Nominal Operat	ing Pres	sure: 🖾		
	Pressure	: <u>2300</u> psi	Те	st Temperatur	e: <u>532</u> D	eg. F			
	plemental sheets in in Items 1 through	•	•		• •	• •		,	

sheets is recorded at the top of this form.

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Certificate of Compliance We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 8/26/98
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-9-9c to 5-18-97, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobut W. Zaunence Commissions: MB822C ANI MD647 Inspector's Signature National Board, State, and Endorsements Date: Oav. 25, 199 9

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:B	altimore Gas Electric Company	Data: 8	3/26/98		
Owner.	(name)	Date:			•
G&E Building, P.	O. Box 1475, Baltimore, Maryland, 21203	Sheet 1 of 2			
2. Plant:	Calvert Cliffs Nuclear Power Plant	Unit: T	wo		
• • • • • • • • • • • • • • • • • • • •	(name)			, and the second	
1650 Calvert Cliff	s Parkway; Lusby, Maryland., 20657-4702	R&R No.			o. 21996041
		Trans Code (P.O. no., job no., et	c.)
3. Work Performed by	Baltimore Gas Electric, NED	Authorization	-	stamp: <u>N/A</u> N/A	ż
+		Exp Date:]	N/A	- , .	:
CCNPP Dept, 165	0 Calvert Cliffs Parkway, Lusby, Md. 20657	Section XI	Class:	One	
4 Identification of Sw	(address) stem: System Number <u>064</u> System Name: Rea	actor Coola	ent Suc	fam.	
- Identification of by	stem. System Number 004 System Name: Nec	actor Cools	iii Sys	tem.	
5. (a) Applicable Const	ruction Code and Class: ASME B&PV Code Sect.	III 1965 F	dition 1	Winter 1967	Add: Class
(b) Applicable Sect 3	I Ed. for Repairs/Replacement	Edition, Su	<u>ummer</u>	83 Addenda	<u> </u>
Identification of Co	mponents Repaired or Replaced and Replacement Components	nents:			
		iioiiw.			ASME
Name of Nar	ne of Manufacturers National Of	4	37.	Repaired,	Code
		ther fication	Year Built	Replaced, or Replacement	Stamped (Yes or No)
					(-00 01 1 10)
	Jackson 171003 793-S-2976 N/A #21A Reactor Co mp 33976	olant Pump	1977	Replaced	Yes
	ternational 19991-GS N/A Cover Assembly, nc. Refurbished by E		19 96	Replacement	No
7. Description of Work	·				
This R&R Plan is to	make necessary repairs to # 21A Reactor Coo	lant Pump;	replacir	ng pump rote	ating
assembly, bolding a	nd cover assembly as necessary.				
8. Tests Conducted:	Hydrostatic: Pneumatic: N	ominal Opera	ting Pres	sure: 🛛	
	Pressure: 2300 psi Test Temperature:		eg. F		
í	-		-		
• .					

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI VT-1 Visual Examination was performed on pump casing flange surface and replacement nuts. A Section XI VT-3 Visual Examination was performed on pump casing interior.

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	* Baltimore	Gas Electric C	ompany		Date: 07/	09/199	9	
_	te for an	(name)			, ,			+ 4"
G&E Buil	ding, P.O. Box 1	475, Baltimore	e, Marylan	d, 21203	Sheet 1 of 2	1		
	•	(address)			•			
2. Plant:	Calvert	Cliffs Nuclear P	ower Plar	it	Unit: T	wo		
•	· · · · · · · · · · · · · · · · · · ·	(name)		and the second				:
1650 Calv	ert Cliffs Parkw	ay; Lusby, Ma	ryland., 2	0657-4702	R&R No. 9	96-2-08	31. MWO No	. 219970294
		(address)		4 - 1,4 - 1 - 1			P.O. no., job no., et	
3. Work Per	formed him Balti	more Gas Elec	tric NED		Type Code S			*
J. WOIKIC	Hormed by:	(name)	110, 11110		Authorizatio			
					Exp Date: 1	√/A		
CCNPP D	ept, 1650 Calve		y, Lusby,	Md. 20657	Section XI C	lass:	One	
		(address)	_					<u> </u>
4. Identifica	tion of System: Sy	stem Number <u>05</u>	2 System	n Name: Sat	ety Injection	<u>n</u>		
5 (a) Amplia	abla Camatanada a G	1 101 '8	0115 544					
J. (a) Applica	able Construction Co	ode and Class: A	SME B31.	1.0 1967 Edi	tion, CCase	N-10		
(b) Applica	able Sect XI Ed. for	Repairs/Replacement	nt	1983	Edition, Su	mmer	83 Addenda	,
< Transition	460	1.1.4 1.4.4		1.50		-		-
· Identifica	tion of Components	Repaired or Replace	ed and Repla	cement Compor	ents:			ASME
			* .		1		Repaired,	Code
Name of	Name of	Manufacturers	National		ther	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Identi	fication	Built	Replacement	(Yes or No)
Valve	Velan Engineering Co.	€028	N/A	22A Reactor Coo	lant Loop Inlet	1977	Replaced	No
Disc	Veian Engineering	10523-GX 7051	N/A	Disc, Velan, 12 in		19 95	Replacement	No
	Co.			Swing Check Val F316, #6 Stellite,	lve, SA-182, SS P/N 8209.			
			:	0 33N440	2711 0207-			*
Stud	Velan Engineering Co.	53907-GX	N/A	Stud, Cover, Vela	an 12" Swing	1991	Replacement	No
	. .			Chk Vlv., P-3475 TPI X 9-1/4 in. S.				
Nut	Velan Engineering	10479-GX	N/A	Nut, Hex, Cover,	1-7/8 in. X 8	19 95	Replacement	No
• •	· ·			TPI, SA-194 Gra- Swing Check Val	de 7, for 12 in.			
Nut	Velan Engineering	90247-GX	N/A	Nut, Hex, Cover,		1994	Replacement	No
	Co.			TPI, SA-194 Gra	de 7, fo r 12 in.		a sop an occasion	140
				Swing Check Val	ve, 1500 Lb.			•
. Description							•	
Open and i	nspect 2CKVSI-2	47; replace val	ve disc and	d bolting as ne	ecessary.	*,		
	_				-			
. Tests Cond	lucted: Hydrost		Pneumatic	: 🔲 No	ominal Operatii	ng Press	иге: 🔲	
	Pressure	: <u>N/A</u> psi.	Tes	Temperature:	N/A Deg	. F		

^{***}TOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8-1/2 in. x 11 in., information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. Performed a construction code surface examinations of the swing arm damaged areas, and the disc drilled keyway. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Owner's Designee, Title Date: 07/09/1999
Certificate of Inservice Inspection
I, the undersigned holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have in ted the
components described in this Owner's Report during the period 12-6-96 to 4-13-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Lowerer Commissions: 188226 ANT, MD647 Inspector's Signature Commissions: National Board, State, and Endorsements Date: July 9, 1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Bal					÷ ,		****	
	timore G	as Electric C	ompany		Date:	/22/98	•	e de la elementaria
G&E Building, P.O.		(name) 5, Baltimore (address)	e, Marylan	d, 21203	Sheet 1 of 2			
2. Plant: C		ffs Nuclear F	ower Plan	<u>it</u>	Unit: T	wo	en e	
1650 Calvert Cliffs		; Lusby, Ma (address)	ryland., 2	0657-4702	R&R No.		29, MWO No 2.0. no., job no., et	. 219950502(
3. Work Performed by:		ore Gas Elec	tric, NED		Type Code S Authorizatio Exp Date: 1	n No.:]		
CCNPP Dept, 1650		Cliffs Parkwa	y, Lusby,	Md. 20657	Section XI C		Two	
4. Identification of Syste	em: System	n Number <u>04</u>	1 System	n Name: Che	emical Volu	me Co	ntrol	
5.(a) Applicable Constru			•	l.0 1967 Edi				
(b) Applicable Sect XI	Ed. for Rep	airs/Replaceme	nt	1983	Edition, Su	ımmer	83 Addenda	1
Identification of Com	ponents Rep	paired or Replac	ed and Replac	cement Compon	ents:			ASME
Name of Name Componet Manufa		Manufacturers Serial Number	National Board No.		ther fication	Year Built	Repaired, Replaced, or Replacement	Code Stamped
Piping System Bech	tel	2"HC-7	N/A	CVC Basket Stra Drain-Off Line	diner (2BS209)	1977	Replaced	No
Bushing, Mid Attacked Reducing Instrument		698	N/A	Bushing, Pipe, R NPT Thread to 1 Thread	educing, 2" Male " Female NPT	19 97	Replacement	No
				ininkk, ist op	00004-0460			4# B 4140000
 Description of Work: Replaced existing 2" isolation valve in acc 	NPT stair	niess steel dr vith ES19960	ain line ass 1774.	embly on 28	S209 to 3/4"	bent ti	uding and 3/4	4" MK2200

9. Remarks:

A Section XI System Inservice Test of the affected component was performed during the system conditions listed in section 8. of this report.

Certificate of Compliance We certify that the statements made in this report are correct and that this ASME Code, Section XI. Replacements made in the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: Signed: C.H. Ballard Engineering Technician Date: 7/22/98
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 6-17-97 to 6-10-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Pobert Laurence commissions: <u>PR8726 ANT</u> , m3 647 Inspector's Signature Date: July 27, 1998

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company	Date: 10/9/97
(name) G&E Building, P.O. Box 1475, Baltimore, Marylar	nd 21203
(address)	IG, 21203 Sheet 1 of 2
2. Plant: Calvert Cliffs Nuclear Power Pla	nt Unit: Two
1650 Calvert Cliffs Parkway; Lusby, Maryland.,	20657-4702 R&R No. 97-2-130, MWO No. 219970141
(address)	(P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED (name)	Type Code Symbol Stamp: N/A Authorization No.: N/A
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby	Exp Date: N/A Md. 20657 Section XI Class: Two
(address)	
4. Identification of System: System Number 052 System	m Name: Safety Injection
	t Code for Pumps & Valves for Nuclear Power, 1968 Ed '70 Addenda Class Two
(b) Applicable Edition of Section XI Utilized for Repairs or I	Replacements: 1983 Edition, Summer 83 Addenda
6. Identification of Components Repaired or Replaced and Rep	Repaired, Code
Name of Name of Manufacturers National Componet Manufacturer Serial Number Board No.	
Valve Velan Enginnering T8515 N/A Co.	2" Safety Injection Welded Bonnet 1977 Repaired No Gate Valve
7. Description of Work: Seal weld existing leak-off plug to 2HVSI-400 valve I	oody.
8. Tests Conducted: Hydrostatic: Pneumat Pressure: N/A psi. Test Tem	ic: Nominal Operating Pressure: nperature: N/A Deg.

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

We certify that the statements made in this report are cor ASME Code, Section XI.	ompliance rect and that this Repair conforms to the rules of the
Type Code Symbol Stamp:N/A_ Certificate of Authorization No.: _N/A_ Expiration Date: _N	<u>//A</u>
Signed: R. Journer's Designee, Title	A.R. Zimmerman Welding Engineer Date: 10/9/97
Certificate of Inserv	ice Inspection
I, the undersigned, holding a valid commission issued by the N and the State of Maryland and employed by Arkwright Mutual Ins	surance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period	
best of my knowledge and belief, the Owner has performed exami Owner's Report in accordance with the requirements of the ASME	
By signing this certificate neither the Inspector nor his em	ployer makes any warrant, expressed or implied, concerning
the examinations and corrective measures described in this Owner employer shall be liable in any manner for any personal injury or	
connected with this inspection.	property damage of a loss of any kind arising from of
	Factory Mutual Engineering Association
Lobert Dayrere Commissions	National Board, State, and Endorsements
Inspector's Signature	National Board, State, and Endorsements
Date: <u>/ Ct. 27</u> 199 9	

As Required Required by the Provisions of the ASME Code Section XI

Name of Componet Valve . Description	Name of Manufacturer Velan Enginnering Co. n of Work:	Serial Number 2HVCVC-361	Board No.	Identifi		Built 1977	Replacement Repaired	Stamped (Yes or No)
Name of Componet	Manufacturer Velan Enginnering	Serial Number	Board No.	1.			Replacement	(Yes or No)
Name of				Identif	ication	Built	•	-
	ion of Components	Repaired or Replace Manufacturers	ed and Replacem National	Oti	ner	Year	Repaired, Replaced, or	ASME Code
	able Construction Co				• • • • • • • • • • • • • • • • • • • •		u Summer 1 ummer 83 A	
4. Identificati	ion of System: Sy	(address) stem Number 04	1 System Na	ame: Che	mical Vo	olume Co	ntrol	
CCNPP De	ept, 1650 Calver		y, Lusby, MC	20657	Exp Date Section X		Two	:
. WOIR I CIT	office by.	(name)				tion No.:	N/A	
3. Work Perf	formed by: Balti	more Gas Elect	ric. NED			le Symbol S	tamp: N/A	-
TOOU GAIVE	ert Cliffs Parkw	(address)	ylanu., 200	31-4702	NON NO	·····	2, MWO No	
16EN Calva	ort Cliffo Borlan	(name)	ndend GOC	F7 4700	DOD NA	. 07 2 42	0 BB8/0 N-	04007000
2. Plant:	Calvert (Cliffs Nuclear P	ower Plant	·	Unit:	Two		1
		(address)			Sheet 1 Or	•	• •	
	ding, P.O. Box 1		. Marvland.	21203	Sheet 1 of			
G&E Build		(name)	ompany		Date:	9/3/97		

9. Remarks:	
No Section X1 Pre-Service NDE was performe	support of this activity.
Applicable Manuf	r's Data Reports to be Attached
We certify that the statements made in this report ASME Code, Section XI.	ate of Compliance rt are correct and that this Repair conforms to the rules of the
Type Code Symbol Stamp: <u>N/A</u> Certificate of Authorization No.: <u>N/A</u> Expiration I	Date: N/A
Signed: Roger Cantrell Owner or er's Designee,	R.E. Cantrell Sr. Engineer Date: 9/3/97 Title
Certificate o	of Inservice Inspection
I, the undersigned, holding a valid commission issued and the State of Maryland and employed by Arkwright I	d by the National Board of Boiler and Pressure Vessel Inspectors Mutual Insurance Co. of Norwood, MA. have inspected the
best of my knowledge and belief, the O Owner's Report in accordance with the By signing this certificate neithe. The Inspector in the examinations and corrective measures described in the employer shall be liable in any manner for any personal connected with this inspection.	e period
Lobot Daniel Co.	mmissions: NB 8226 ANE, MO647 ational Board, State, and Endorsement

As Required Required by the Provisions of the ASME Code Section XI

·· De	ilimara Can Electric	0				: .	
1. Owner:	Itimore Gas Electric	Company		Date:	10/7/98	<u> </u>	
G&E Building, P.C	D. Box 1475, Baltimo (address)	re, Marylan	d, 21203	Sheet 1 o	f 2		
2. Plant:	Calvert Cliffs Nuclear	Power Plan	it sign	Unit:	Two		
	(name)			Om			
1650 Calvert Cliffs	Parkway; Lusby, M	aryland., 2	0657-4702	R&R N	o. 97-2-13	3, MWO No	. 2199705361
	(address)		•			'.O. no., job no., et	c.)
3. Work Performed by:	Baltimore Gas Ele	ctric, NED			de Symbol S		
	(name)				ation No.:]	<u>N/A</u>	
CCNPP Dept, 1650	Calvert Cliffs Parkw	ay, Lusby,	MD 20657	Exp Date Section 2		Two	
4. Identification of Sys	tem: System Number	52 System	n Name: <u>Saf</u>	ety Injec	tion	-	
5. (a) Applicable Constr(b) Applicable Sect X		Add; Class				68 Edition, I 83 Addenda	
dentification of Con	oponents Repaired or Repla	ced and Repla	cement Compor	nents:	•		4.63.65
Name of Nam Componet Manuf		National Board No.		ther fication	Y e ar Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve Velan En		N/A	2" Safety Injectic Bonnet Gate Val		1977	Repaired	No
: :				- ,			
7. Description of Work							
ке-репогт seai we 2199701412.	ld on existing leak-off	olug to valve	stuffing box	which fai	led PMT u	nder MWO#	
8. Tests Conducted:	Hydrostatic:	Pneumatic	:: П и	ominal On	erating Press	ure: 🔯	
	Pressure: 150 psi	_	t Temperature:	<u>84</u>	Deg. F		
NOTE: Supplemental	sheets in form of lists s	tratabas or de	marinaa maa h			-::-0 * <i>m</i> :	

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Certificate of Compliance Repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Owner or Owner's Designee, Title A.R. Zimmerman Welding Engineer 10/7/98
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 9-17-97 to 8-5-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: WB 8 226 WT, MD 647 Inspector's Signature Date: Oct. 12 1998

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric Co	ompany	•	Date: _	4/29	180			
G&E Build	ling, P.O. Box 1	475, Baltimore (address)	, Maryland	1, 2120	Sheet 1	of 2				
2. Plant:	Calvert C	Cliffs Nuclear Po	ower Plant	ŧ .	Unit: _	Two		*. * .		
1650 Calve	ert Cliffs Parkwa	ay; Lusby, Mar	yland., 20	0657-47	702 R&R I	Vo. 98-	2 -0 0	1, MWO N	lo. 21998	0025
		(address)					(P	.O. no., job no.	, etc.)	
9 W	e Baltir	more Gas Elect	tric. NED	- 1		. •		amp: <u>N/A</u>	et e	
3. Work Peri	formed by:	(name)				ization N	_	<u> 1/A</u>		· :
COURD D		4 Oliffa Dardania		HD 200		te: <u>N/A</u>	•			
CCNPP De	ept, 1650 Calver		y, Lusby,	MD 200	Section Section	XI Clas	s:	Two	*.	,
	··- ·66 6	(address)	2 C	n Name:	Safety Inje	ction				
4. Idenimical	tion of System: Sys	stem Number	<u>z</u> System	u Name.	Culoty Inge					_
5 (a) Annlica	ble Construction Co	de and Class: Co	ombustion	Engin	eering Spec.	8067~	487-	710 w/Co	de Case N	J-10
					4002 Edition				da	•
	ble Sect XI Ed. for l	Repairs/Replaceme	nt		1983 Edition				da	
(b) Applica	ble Sect XI Ed. for l			ncement (· · · · · · · · · · · · · · · · · · ·	
(b) Applica				ecement (da ASM Code	E
(b) Applica Identificat Name of	ion of Components Name of	Repaired or Replac Manufacturers	ed and Repla	ncement (Components:	n, Sum	mer i	Repaired, Replaced,	ASM Code or Stamp	E e ed
(b) Applica	ion of Components	Repaired or Replac	ed and Repla	ncement (Components:	n, Sum	mer i	83 Adden Repaired,	ASM Code or Stamp	E e ed
(b) Applica Identificat Name of	ion of Components Name of	Repaired or Replac Manufacturers	ed and Repla	No. 22 H	Components:	n, Sum	mer i	Repaired, Replaced,	ASM Code or Stamp	E e ed No)
(b) Applicate Identificate Name of Componet	Name of Manufacturer Velan Engineering	Repaired or Replace Manufacturers Serial Number	ed and Repla National Board No.	No. 22 H Injection valve Disc for check va	Other Identification	Safety heck	mer Year Built	Repaired, Replaced, Replaceme	ASM Code or Stamp ont (Yes or No	E e ed No)
(b) Applicate Identificate Name of Componet Valve	Name of Manufacturer Velan Engineering Co. Velan Engineering	Repaired or Replace Manufacturers Serial Number	National Board No.	No. 22 H Injection valve Disc for check va	Other Identification Igh Pressure Pump Pump discharge et Velan 3 in. 900 Lb. lve, ASME SA-182	Safety heck	Mer Year Built	Repaired, Replaced, Replaceme Replaced	ASM Code or Stamp ont (Yes or No	E e ed No)
(b) Applicate Identificate Name of Componet Valve Disc 7. Description Install new	Name of Manufacturer Velan Engineering Co. Velan Engineering	Manufacturers Serial Number 1464 93710-GX 6592	National Board No. N/A N/A	No. 22 H Injection valve Disc for check va (Hardfac	Other Identification Igh Pressure Pump Pump discharge et Velan 3 In. 900 Lb. Ive, ASME SA-182 red w/Stellite #6)	Safety heck swing F316	Year Built 1977	Repaired, Replaced, Replacement	ASM Code or Stamp ont (Yes or	E e ed No)
(b) Applica Identificat Name of Componet Valve Disc 7. Descriptio Install new lugs on dis	Name of Manufacturer Velan Engineering Co. Velan Engineering Co. on of Work: disc (s/n 6592) of c in accordance	Manufacturers Serial Number 1464 93710-GX 6592 on #22 HPSI Pu with MCR 93-05	National Board No. N/A N/A	No. 22 H Injection valve Disc for check va (Hardfac	Other Identification Igh Pressure Pump Pump discharge et Velan 3 In. 900 Lb. Ive, ASME SA-182 red w/Stellite #6) eck Valve 2C	Safety heck swing F316	Mer Suilt 1977 1994	Repaired, Replaced, Replaced Replaced Replacement	ASM Code or Stamp ont (Yes or	E e ed No)
(b) Applicate Identificate Name of Componet Valve Disc 7. Description Install new	Name of Manufacturer Velan Engineering Co. Velan Engineering Co. on of Work: disc (s/n 6592) of c in accordance	Manufacturers Serial Number 1464 93710-GX 6592 on #22 HPSI Pu with MCR 93-05	National Board No. N/A N/A Prop Dischar 52-022. Pneumatic	No. 22 H Injection valve Disc for check va (Hardfac	Other Identification Igh Pressure Pump Pump discharge et Velan 3 In. 900 Lb. Ive, ASME SA-182 red w/Stellite #6)	Safety heck swing F316	Mer Suilt 1977 1994	Repaired, Replaced, Replaced Replaced Replacement	ASM Code or Stamp ont (Yes or	E e ed No)

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. The replacement valve wedge/plug received a Construction Code Surface Examination at the request of the resident ANII.

We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: C.H. Ballard Engineering Technician Date: 4/29/98
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 1-23-98 to 1-30-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Date: Sept. 28, 1998 Commissions: NB8226 ANI, MA 647 National Board, State, and Endorsements

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric C	ompany	· . · · · ·	Date:06/0	7/199	<u>9</u>	
G&F Build	ding, P.O. Box 1	(name) A75 Baltimore	Mondon	4 21202				
GGL Danc	anig, F.O. Box 1	(address)	e, waryiand	4, 21203	Sheet 1 of 2			
	0-1	(,		•				
2. Plant:	Calvert (Cliffs Nuclear P	ower Plan	it ·	Unit: Tw	<u> </u>		
•		(name)			· · · · · · · · · · · · · · · · · · ·	;	the transfer of the same of the	
1650 Calv	ert Cliffs Parkwa	ay; Lusby, Mai	ryland., 2	0657-4702	R&R No. 9	8-2-00	4, MWO No	. 219970405
		(address)				(1	P.O. no., job no., et	c.)
3. Work Per	formed hur Baltin	more Gas Elec	tric. NED		Type Code Sy	ymbol S	Stamp: N/A	
J. WOIK PEL	tormed by:	(name)	,		Authorization	No.:	<u>N/A</u>	, , , , , , , , , , , , , , , , , , , ,
:					Exp Date: N	<u>/A</u>		• •
CCNPP De	ept, 1650 Calver	t Cliffs Parkwa	y, Lusby,	MD 20657	Section XI Cl	ass:	One	:
	•	(address)						•
4. Identificat	tion of System: Sys	stem Number <u>06</u>	4 Syster	n Name: Rea	actor Coolar	it Sys	tem	
- -	able Sect XI Ed. for I	Repairs/Replaceme		Ed summer		i sum	mer 92 Ad fo	Or IWE/IWL ASME Code
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.	· . — ·	ther fication	Year Built	Replaced, or Replacement	Stamped (Yes or No)
Valve Valve, Relief	Dresser Industrial Valve Co. Dresser Industries, Inc.	BN-04375 2905 BV-02950	N/A N/A	2-1/2" CC-10-20 Pressurizer Safet Valve, Consolida Bonnet Maxiflow	y Relief Valve ted Closed	1970 1997	Replaced Replacement	Yes Yes
:				Model 31739A				
7. Description	n of Work:	•	٤		• .	4,4 1		
Replace Ur replace this	nit-2 Pressurizer i s valve in its entir	Safety Relief Va ety.	lve, 2RV20	00. No additid	onal parts are	spec	ified, as this	MWO will
8. Tests Cond	ducted: Hydrosi Pressure		Pneumatic Tes	:: N t Temperature:	ominal Operatii <u>532</u> Deg	_	sure: 🖾	

9. Remarks:

A Section XI VŢ-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

3	We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
	Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
	Signed: A.R. Zimmerman Welding Engineer Date: 06/07/1999 Owner or Owner's Designee, Title
	Certificate of Inservice Inspection
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
	components described in this Owner's Report during the period 4-18-98 to 5-5-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
	Lobut Lawrence Commissions: NBBZZG ANI, MD 647 National Board, State, and Endorsements Date: 1999



Alexandria, Louisiana USA

, F	ORM NVR-1 REPORT OF RE	PAIR図 MODIFICAL MEDITION		REPLACEMENT 🖾	
Work performed by	Dresser Industries Inc., Dresser Va			012	F720 0
1. Your pendince of	Operation (name of organisms of organisms of organisms of organisms of the control of the contro			P.O.no.job n	.5720-0 May elc)
2. Work performed for BC	G&E 1650 Calverts C	•	Lusby, MD	20657	
3. Owner BG&E Cal	lverts Cliffs Nuclea	r Station 165	50 Calvert C	liffs Parkway	[name]
4. Name, address and identifica 1650 Call		BG&E Calver	rts Cliffs No. 20657	uclear Station	
Repaired pressure relief d b. Name of manufacturer	6.6.				
c. Identifying nos.	31739A BV-029			Steam 2-1	
	ASME Section III	1968	Winter 19	68 N/A	N/A
d, Construction Code	(hame/section/division)	(edien)	(eddende)	(Code Case(s))	(Code Case)
6. ASME Code Section XI applic	able for inservice inspection;	1983	Sum	mer 1983	N/A
•	•	(edion)		(addenda) ([Code Coss(s]]
7. ASME Code Section XI used	for repairs, modifications, or replaceme	ents: 19	983	<u>Summer 1983</u>	<u> </u>
		1	(edition) 1968	(addenda)	[Code Case(s]]
E. Construction Code used for re	pairs, modifications, or replacements:		LY68	Winter 1968 (addends)	N/A Code Case(e))
gn responsibilities	Same as Item #1	•		**************************************	leans people!!
	ories, Huntsville,			Steam fiet medium ed, inspected, o and Tested	
2. Remarks: Dri	lled 3/8" hole in d	isc holder to m			
				.•	
I. R. J. J. Section XI of the A National Board Certificate of Au National Board Certificate of Au National Board Certificate of Au Date 4-28 1917 Signs	thorization*No. 48 to	CERTIFICATE OF COMPLIAN are correct and the repair, m spection Code "VR" and "NR" use the "NR" stamp expires use the "NR" stamp expires RR REMARKATION AND THE STATE OF THE ST	6/29 19 98 6/30 19 99	ent of the pressuré relief device Rodnes R. Sko Principal Quality Assuran (850)	ma
this repair, modification or replace rules. By signing this certificate, neither	holding a valid committed in the control of the completed in the comment has been completed in accordance the undersigned nor my employer memore, neither the undersigned nor my this inspection.	and employed by Ti is report on 4/28 1 ance with Section XI of the Al akes any warranty, excressed	Board of Boiler and Pro- the Hantford Steam Boile 19 97 and state SME Gode and the National distribution of the state of t	the recair modification or re-	to, of Hartford, CT vierte and belief, "VR" and "NR" placement or loss of any kind
				Juriediction, and	f no.)

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: E	saltimore Gas Electri	c Company		Date:05/2	26/199	9_	
G&E Building, P.	(name) O. Box 1475, Baltim	ore, Marylan	d, 21203	Sheet 1 of 2			
	(address)						
2. Plant:	Calvert Cliffs Nuclea	ar Power Plan	<u>t</u>	Unit: Tv	VO		
	(name)	1. 1.	1	•		4 B	
1650 Calvert Clif	fs Parkway; Lusby,	Maryland., 2	0657-4702	R&R No. 9		5, MWO No	
	D. 111			Type Code S	-	P.O. no., job no., et Stomme NT/A	3.)
3. Work Performed b		lectric, NED		Authorization			
	(name)			Exp Date: N		IVA	
CCNPP Dept, 165	0 Calvert Cliffs Park	way, Lusby,	MD 20657	Section XI C		One.	
	(address)				····	Olle	
4. Identification of Sy	stem: System Number	064 System	n Name: Rea	ctor Coolar	nt Svs	tem .	•
(b) Applicable Sect	truction Code and Class: XI Ed. for Repairs/Replace pmponents Repaired or Rep	CCases N-2	Ed summer &	33 Ad; 92 E		mer 92 Ad fo	or IWE/IWL ASME
Name of Name	me of Manufacture	rs National	Out.			Repaired,	Code
	facturer Serial Numb			her Ication	Year Built	Replaced, or Replacement	Stamped (Yes or No)
Valve, Relief Dresser	Industrial BM07949 ve Co. Industries, 2905 BS0321	N/A 3 N/A	2-1/2" CC-10-200 Pressurizer Safety Valve, Consolidat	8; Unit-2 y Relief Valve ed Closed	1977 1997	Replaced Replacement	Yes Yes
	inc.		Bonnet Maxiflow Model 31739A	Safety; 2-1/2 in.		**************************************	*
7. Description of World	lea.			· · ·			-
-	ssurizer Safety Relief	Valve, 2RV20	1. No additio	onal parts are	e speci	ified, as this l	MWO will
3. Tests Conducted:	Hydrostatic: Pressure: 2300 p	Pneumatic osi. Tes	: No t Temperature:	ominal Operatii 532 Deg	_	sure: 🛛	

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. A Section XI VT-1 Visual Examination was performed for valve pressure retaining bolting.

Certificate of Compliance We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of	
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A	-
Signed: A.R. Zimmerman Welding Engineer Date: 05/26/1999 Owner or Owner's Designee, Title	
Certificate of Inservice Inspection	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 4-18-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.	
Date: 14, 1999	

As Required Required by the Provisions of the ASME:Code Section XI

1. Owner:	Baltimore	Gas Electric Co	ompany		Date: _06/1	5/199	9	
	• •	(name)						
G&E Buildin	ng, P.O. Box 1	475, Baltimore,	Maryland	1, 21203	Sheet 1 of 2			
		(address)						
2. Plant:	Calvert (Cliffs Nuclear Po	ower Plan	t	Unit: Tw	<i>i</i> 0	. :	
	•	(name)	<u> </u>				en e	
1650 Calver	t Cliffs Parkwa	ay; Lusby, Mar	yland., 2	0657-4702	R&R No. 9	8-2-01	1, MWO No.	2199800340
		(address)				(F	O. no., job no., etc	.)
	Relti	more Gas Elect	ria NED	1 1 1 1 1 1 1 1 1	Type Code S	ymbol S	tamp: N/A	
3. Work Perform	rmed by: Balti	(name)	iic, RED		Authorization	No.:]	N/A	· •
•		(name)			Exp Date: N	/A		4
CCNPP Dep	ot, 1650 Calver	t Cliffs Parkway	Lusby,	MD 20657	Section XI C	ass:	Two	
		(address)						
4. Identificatio	on of System: Sy	stem Number _08:	3 System	n Name: <u>Ma</u>	in Steam & S	SG Se	condary Sid	e & SG_
	le Construction Co		ld; Class	Code for Pu Two Ed summer			-	
	* * *				· · · · · ·			
dentificatio	n of Components	Repaired or Replace	d and Replac	cement Compor	ents:			ASME
						*	Repaired,	Code
Name of	Name of	Manufacturers	National		ther	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.	Identi	fication	Built	Replacement	(Yes or No)
Valve	Masoneilan International Inc.	F7984	NA	#22 S/G Bottom Containment Iso		1977	Replaced	Yes
Plug	Masoneilan	95589-GX A16671-3	N/A	Plug, valve, 2", 6 Masonellan p/n		1995	Replacement	No
7. Description	of Work:					1		
	ttom blowdown	containment iso	lation valve	e, 2CV4013,	for #22 stear	n gene	erator; replac	e valve
8. Tests Condu	cted: Hydros Pressur		Pneumatic Tes	:: Note: Temperature:	ominal Operati <u>N/A</u> Deg		sure:	

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Owner or Owner's Designee, Title Date: 06/15/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period
Connected with this inspection. Solvet Surveyee Commissions: MB8ZZGAWI MJ647 Inspector's Signature National Board, Stale, and Endorsements Date: June 24,1999

As Required Required by the Provisions of the ASME Code Section XI

Date:06/01/1999
Sheet 1 of 2
Unit: Two
R&R No. 98-2-013, MWO No. 219980033: (P.O. no., job no., etc.) Type Code Symbol Stamp: N/A Authorization No.: N/A Exp Date: N/A Section XI Class:
Repaired, Code rer Year Replaced, or Stamped cation Built Replacement (Yes or No)
owdown 1977 Replaced Yes ion Valve lb., 1995 Replacement No
generator; replace valve plug as
1

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. The surface examination of the replacement plug was waived by the ANI.

Certificate of Compliance We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 06/01/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 4-16-98 to 5-14-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning
the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Pobut Descriptions: NBB2ZG ANI, MD647_ Inspector's Signature Commissions: NBB2ZG ANI, MD647_ National Board, State, and Endorsements
Date: 9, 1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimor	e Gas Electric C	ompany		Date:	11/11/98	<u> </u>	
G&E Build	ing, P.O. Box	1475, Baltimore (address)	e, Marylan	d, 21203	Sheet 1 of	2		
2. Plant:	Calvert	Cliffs Nuclear F	Power Plan	nt .	Unit:	Two		
1650 Calve	ert Cliffs Parkv	vay; Lusby, Ma	ryland., 2	20657-4702	R&R No		94, MWO No	. 2199802320
3. Work Perfe	ormed by: Balt	timore Gas Elec	tric, NED	tradica esta j		e Symbol S tion No.:	Stamp: <u>N/A</u>	
CCNPP De	pt, 1650 Calve	ert Cliffs Parkwa (address)	y, Lusby,	MD 20657	Section X		One	
: .	ole Construction C		Cases: 13	V Code Sect. 36, 1338-3, 13	359-1	Edition, \		Add; Class
Identification	on of Components	Repaired or Replac	ed and Repla	cement Compone	ents:		Repaired,	ASME Code
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.		her ication	Year Built	Replaced, or Replacement	Stamped (Yes or No)
Pressure Vessel	Combustion Engineering Combustion	CE 67603	20916	No. 21 Pressurize penetration 2-LT-	-110X	1972	Replaced	Yes
7. Description	Engineering Inc.	40310-GA	N/A	Nozzle Ass. P/N E	-9343-CU90-2	24 1 9 90	Replacement	No
		S199801103 and	FRAM-14	on #21 Press	surizer up	per pene	tration 2-LT-	110X.
8. Tests Condu	eted: Hydro Pressu		Pneumatic Tes		ominal Oper <u>532.5</u> I	rating Press Deg. F	ure: 🗖	·

9. Remarks:

A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 11/11/98
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 7-28-98 to 8-6-98, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: 18322641 10047 National Board, State, and Endorsements Date: 1993

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	ltimore (Gas Electric Co	ompany		Date:06/0	09/1999	9	
		(name)		1				
G&E Building, P.C). Box 14	75, Baltimore	, Maryland,	21203	Sheet 1 of 2		•	
		(address)						
2. Plant:	Calvert C	liffs Nuclear P	ower Plant	1	Unit: Tv	vo ·	• • • •	
		(name)						
1650 Calvert Cliffs	: Parkwa	v: Lusby. Mar	vland 20	657-4702	R&R No. 9	8-2-14	7, MWO No.	219970392
		(address)	<i>,</i> ,				O. no., job no., etc	
3. Work Performed by	Baltin	nore Gas Elect	ric, NED		Type Code S	ymbol S	tamp: N/A	
· · · · · · · · · · · · · · · · · · ·		(name)			Authorization	-	N/A	
CCNPP Dept, 1656) Calvert	Cliffs Parkway	v. Lusby. N		Exp Date: <u>N</u> Section XI C		Two	•
		(address)	,,,,		oction At C		140	:
4. Identification of Sys	tem: Sys	tem Number 04	5 System	Name: Feed	water		•	
5. (a) Applicable Const (b) Applicable Sect X								or IWE/IWL
	mponents R ne of facturer	epaired or Replace Manufacturers Serial Number	ed and Replace National Board No.	ement Componer Othe Identific	ats: er	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Name of Nam Componet Manu	ne of facturer	Manufacturers	National Board No.	Otho Identific No. 21 Steam Gener	er ation	Year	Repaired, Replaced, or	ASME Code Stamped
Name of Name Componet Manus	ne of facturer	Manufacturers Serial Number	National Board No. N/A	Otho Identific No. 21 Steam Gener Water Supply Chec Retainer, Hinge Pir	ats: eation eator Feed k Valve	Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Name of Name Componet Manus Valve Rock Interest Retainer Edward V	ne of facturer kwell ational	Manufacturers Serial Number	National Board No. N/A N/A	Othe Identific No. 21 Steam Gener Water Supply Chec	ats: eation eation eator Feed k Valve check s Fig. 970Y al, Check	Year Built	Replaced, or Replacement Replaced Replaced	ASME Code Stamped (Yes or No)
Name of Name Componet Manus Valve Rock Interest Retainer Edward Valve Edward Valve Rock Interest Retainer Edward Valve Rock Retainer Edward Valve Rock Retainer Edward Valve Rock Retainer Retainer Edward Valve Rock Retainer Reta	ne of facturer kwell ational Valves Inc.	Manufacturers Serial Number QU-83 12001	National Board No. N/A N/A N/A	Othe Identific No. 21 Steam Gener Water Supply Chec Retainer, Hinge Pir Valve, 16", Edward Cover, Pressure Sea	eation rator Feed & Valve c, Check Is Fig. 970Y al, Check Is Fig. 970Y heck Valve,	Year Built 1977 1997	Replaced, or Replacement Replaced Replacement	ASME Code Stamped (Yes or No) No
Name of Componet Manus Valve Roce Internation Retainer Edward Cover Edward Retainer Edward	ne of facturer kwell ational Valves Inc. Valves Inc.	Manufacturers Serial Number QU-83 12001 24416	National Board No. N/A N/A N/A	Other Identific No. 21 Steam Gener Water Supply Chec Retainer, Hinge Pir Valve, 16", Edward Cover, Pressure Ser Valve, 16", Edward Retainer, Cover, Cl	eation rator Feed & Valve c, Check Is Fig. 970Y al, Check Is Fig. 970Y heck Valve,	Year Built 1977 1997	Replaced, or Replacement Replaced Replacement Replacement	ASME Code Stamped (Yes or No) No No
Name of Componet Manus Valve Roce Internation Retainer Edward Cover Edward Retainer Edward	ne of facturer kwell ational Valves Inc. Valve Inc.	Manufacturers Serial Number QU-83 12001 24416 10775-GX	National Board No. N/A N/A N/A	Other Identification No. 21 Steam Gener Water Supply Check Retainer, Hinge Pir Valve, 16", Edward Cover, Pressure See Valve, 16", Edward Retainer, Cover, Cl 16", Edwards Fig. 5	er ration rator Feed k Valve t, Check is Fig. 970Y al, Check is Fig. 970Y neck Valve,	Year Built 1977 1997 1998 1995	Replaced, or Replacement Replaced Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No No
Name of Componet Manus Valve Rock Internation Retainer Edward Retainer Edward 7. Description of Work Perform maintenan	ne of facturer kwell ational Valves Inc. Valves Inc.	Manufacturers Serial Number QU-83 12001 24416 10775-GX	National Board No. N/A N/A N/A	Other Identification of the Identification o	er ration rator Feed k Valve , Check is Fig. 970Y al, Check is Fig. 970Y heck Valve, 170Y	Year Built 1977 1997 1998 1995	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No No
Name of Name Componet Manus Valve Rocc Interes Retainer Edward V Retainer Edward V 7. Description of Work	ne of facturer kwell ational Valves Inc. Valves Inc.	Manufacturers Serial Number QU-83 12001 24416 10775-GX edwater Check	National Board No. N/A N/A N/A N/A Valve 2CKV Pneumatic:	Other Identification No. 21 Steam Gener Water Supply Chec Retainer, Hinge Pir Valve, 16", Edward Cover, Pressure Sec Valve, 16", Edward Retainer, Cover, Cl 16", Edwards Fig. 5	er ration rator Feed k Valve t, Check is Fig. 970Y al, Check is Fig. 970Y neck Valve,	Year Built 1977 1997 1998 1995 and bo	Repaired, Replaced, or Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No No

9. Remarks:

A Section XI System Inservice Test of the affected component was performed during the system conditions listed in action 8, of this report. ANI Hold Point: The ANI witnessed a surface examination of the replacer, and "Pressure Seal Cover" prior to installation.

Applicable Manufacturer's Data Reports to be Attached

We certify that the statements made in this report are correct are the ASME Code, Section XI.	liance d that this <u>Replacemer</u>	nt conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A		
Signed: Signed: Owner's Designee, Title	A.R. Zimmerman Welding Engineer	Date: 06/09/1999
Certificate of Inservice I	nspection	
I, the undersigned, holding a valid commission issued by the National and the State of Maryland and employed by Factory Mutual Insurance Components described in this Owner's Report during the period	to 5-S to 5-S as and taken corrective me, Section XI. makes any warrant, export. Furthermore, neither ty damage of a loss of ar	neasures described in this ressed or implied, concerning er the Inspector nor his my kind arising from or

· ·	Baltin	nore Gas Electric (name)	Company		Date: An	ril 12, 1999	
G&E	Building, P.O.	Box 1475, Baltim (address)	ore, MD,	21203	Unit: <u>T</u>	<u>wo</u>	
. Plant:	Calvert (Cliffs Nuclear Pow (name)	er Plant		R&R No:	<u>98-2-165</u>	e in die Deutschafte
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657-	4702 (***	MWO No	: <u>2199604869</u> (PO, job no.)	
. Work Peri	formed by: _B	altimore Gas Elec-	tric, NEI ume)	O, CCNPPD	T Authorizatio	ype Code Symbol Stam n No: <u>N/A</u> Exp Date	p: <u>N/A</u> : <u>N/A</u>
1650 Cal	vert Cliffs Par	rkway; Lusby, M (address)	D 20657-	4702	Section X	I Class: Two	•
. (a) Applica	ible Constructi	on Code and Class	: USAS 1	System Na <u>B31.7 1969 ED. thr</u> irs/Replacements: <u>19</u> 19	u 1971 ADD 83 Edition,	•	
Name of	ion of Compor Name of Manufacturer	Manufacturers	eplaced, a National Board No.	nd Replacement Cor Other Identification	Year		ASME Code tamped 'es or No)
TYDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 73345358-53 (VB) 8869B-1-SP	N/A	2-52-20A	N/A	Replaced	No
	H	(0)(1)	N/A			1	i
	GRINNELL CORP.	(CYL) 73355668-196 (VB) 9514B-1-SP	IVA	2-52-20A	1998	Replacement	No
	1	73355668-196 (VB)	N/A	2-52-20A	1998	Replacement	No
Description ERFORMED	of Work:	73355668-196 (VB) 9514B-1-SP	CE ON SN	UBBER: 2-52-20A		Replacement perating Pressure:	

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-12-99 to 4-7-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert L. Lawrence Commissions: NB8ZZGANI MD647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date:

1. Owner:	Baltir	nore Gas Electric	c Compan	<u>v </u>	- Dat	e: <u>M</u>	arch 18, 1999		
		(name)			•	_			
G&E	Building, P.O	. Box 1475, Balti (address)	more, MD	21203	Uni	t: <u>]</u>	wo		
2. Plant:	Calvert	Cliffs Nuclear Po (name)	wer Plant		R&	R No:	<u>98-2-166</u>		
1650 Cal	vert Cliffs Pa	rkway; Lusby, I (address)	MD 20657	<u>-4702</u>	MV	/O N	D: <u>2199800573</u> (PO, job no.)		
3. Work Per	formed by: <u>B</u>	altimore Gas Ele	ctric, NE	D, CCNPPD	Auth	orizatio	Type Code Symbol and No: N/A Exp	Stamp: Date: 1	N/A
1650 Cal	vert Cliffs Pa	rkway; Lusby, N (address)	AD 20657	<u>-4702</u>			I Class: Two		 :
		System Number	—				e Water Coolir	g	
i. (a) Applica	able Constructi	ion Code and Clas	s: <u>USAS</u>	B31.1 1967 ED	. thru 1972	ADI	<u>).</u>		
		Section XI Utiliz			ts: <u>1983 Ed</u>	tion,		idend VE/IV	<u>a</u> VI.)
. Identificat	ion of Compor	nents Repaired or	Replaced,	and Replacement				<u> </u>	<u> </u>
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built		Repaired, Replaced, or Replacement	Stam	ASME Code ped or No)
YDRAULIC	GRINNELL	(027)	1					(165)	u No)
NUBBERS	CORP.	(CYL) 79404793-42 (VB) 80102860-5	N/A	2-11-16A	1	VA T	Replaced		No
YDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 91219610-10 (VB)	N/A	2-11-16A	1	995	Replacement		No
		17091-4	\$, 1 .					}	-
			<u> </u>				<u></u>		<u> </u>
Description	of Work:	•	•					*	
ERFORMED	PREVENTIV	E MAINTENAN	CE ON SN	NUBBER: 2-11-	16A				
Tests Cond	ucted: Hy	vdrostatic:	Pne	umatic:	Nomi	nal O	perating Pressu	<u> </u>	1
	Pr	essure: N/A psi.		Test Tempe					•
OTE: Suppl formation in	emental sheet	s in form of lists,	sketches, o	r drawinge may l	he used mro		. (1) sime in 0-1	/2"x 1	1", (2)

9.	Rei	ma	-Vc	
7.	L/C	114	1 1 2	١.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 18, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period 1-12-99 to 3-17-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Sawrence Commissions: NBSZZGANI MDG47 Inspector's Signature National Board, State, and Endorsements
Date: <u>Opril 28,</u> 199 <u>9</u>

		As Required by th	E FIUVISI	OIIS OF THE ASIME	-	00000	173		
1. Owner:	Baltim	ore Gas Electric Co	ompany		Da	ite: <u>Ma</u> i	rch 31, 1999		
G&E B	uilding, P.O.	Box 1475, Baltimo	re, MD,	21203	Ur	it: " <u>Tw</u>	<u>'O</u>		
2. Plant:	Calvert C	Cliffs Nuclear Powe	r Plant	<u> </u>	Rå	kR No:	<u>98-2-169</u>		
1650 Calv	ert Cliffs Pa	rkway; Lusby, MD (address)	20657-4	702	M	WO No:	2199704491 (PO, job no.)	.*	:
3. Work Perfo	ormed by: B	altimore Gas Electi		CCNPPD	Au		pe Code Symbol St No: <u>N/A</u> Exp D		
1650 Calv	ert Cliffs Pa	rkway; Lusby, MD (address)	20657-4	702	Se	ction XI	Class: Two	٠.	•
	•	System Number:					ry Feedwater		:
5. (a) Applical	ble Construct	ion Code and Class:	USAS E	31.1 1967 ED. th	ru 197	<u> 2 ADD.</u>	1		
(b) Applica	ble Edition of	Section XI Utilized	for Repai	rs/Replacements: 1	983 E 992 E	dition, S d., Sum	Summer 83 Ad mer 92 Ad.(TW	dend: E/IW	<u>'L)</u>
6. Identificati	on of Compo	nents Repaired or Re	eplaced, a	nd Replacement Co	mpon	ents:			ASME
Name of Component	Name of Manufacturer		Vational loard No.	Other Identification	Ye: Bu		Repaired, Replaced, or Replacement	Stam	
				1000		27/4	Destand		No
HYDRAULIC	GRINNELL	(CYL)	N/A	2-36-5		N/A	Replaced		140
SNUBBERS	CORP.	79404793-2							
		(VB) 79398753-541					1 4 4	. :	
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404797-69	N/A	2-36-5		1999	Replacement		No
		(VB) 79398753-347	£ %						
	<u> </u>		1		•		1	•	لــــــبــا
7. Description	n of Work:	* * * * * * * * * * * * * * * * * * *							
PERFORME	PREVENTI	VE MAINTENAN(CE ON SN	IUBBER: 2-36-5					
8. Tests Cond	lucted:	Hydrostatic:	Pne	eumatic:	N	ominal (Operating Press	ure: [3
	1	Pressure: N/A psi.		Test Tempera	iture:	N/A De	g.		
NOTE: Supr	olemental she	ets in form of lists, s	ketches, c	or drawings may be	used,	provide	d: (1) size is 8-:	1/2"x	11", (2)

^	ъ .	
u	Remarks	۰
<i>-</i> .	I/CILIDIA NO	

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 31, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period /-/2-99 to 3-3/-99, and state to the best of my knowledge and lief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NB 7525 1BNA PA 2159 Inspector Signature National Board, State, and Endorsements
Date: APRIL 14 1999

1. Owner: _	Baltime	ore Gas Electric (name)	Company		D	ate: Apı	ril 12, 1999	
G&E I	Building, P.O.	Box 1475, Baltin	nore, MD,	21203	U	nit: <u>Ty</u>	<u>vo</u>	
2. Plant:	Calvert C	liffs Nuclear Pow (name)	ver Plant	· · · · · · · · · · · · · · · · · · ·	R	&R No:	<u>98-2-170</u>	
1650 Cal	vert Cliffs Par	kway; Lusby, M	ID 20657-4	4702	M	WO No:	2199800579 (PO, job no.)	
3. Work Perf	formed by: <u>Ba</u>	ltimore Gas Elec	etric, NED	, CCNPPD	A u		ype Code Symbol Star No: <u>N/A</u> Exp Dat	
1650 Cal	vert Cliffs Par	kway: Lusby, M (address)	ID 20657-4	1702	Se	ction XI	Class: Two	
. Identificati	ion of System:	System Number:	: <u>45</u>	System 1	Name:	<u>Feedwa</u>	ter	
i. (a) Applica	ble Construction	on Code and Class	s: <u>USAS F</u>	331.1 1967 ED. tl	h ru 19 '	72 ADD.	<u> </u>	
(b) Applica	ble Edition of	Section XI Utilize	ed for Repai	irs/Replacements:			Summer 83 Add mer 92 Ad.(TWE	
Name of Component	ion of Compon Name of Manufacturer	ents Repaired or I Manufacturers Serial Number	Replaced, a National Board No.	nd Replacement C Other Identification	ompon Ye Bu	ur I	• •	ASME Code Stamped Yes or No)
Name of	Name of	Manufacturers	National	Other	Ye	ur I	Replaced, or	Code Stamped
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 76181172-11 (VB) 1644-5-A (CYL) 90203740-9 (VB)	National Board No.	Other Identification	Ye	ar I ilt F	Replaced, or Replacement (Code Stamped Yes or No)
Name of Component	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 76181172-11 (VB) 1644-5-A (CYL) 90203740-9	National Board No.	Other Identification	Ye	ar I ilt F N/A	Replaced, or Replacement (Code Stamped Yes or No)
Name of Component HYDRAULIC NUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 76181172-11 (VB) 1644-5-A (CYL) 90203740-9 (VB)	National Board No.	Other Identification	Ye	ar I ilt F N/A	Replaced, or Replacement (Code Stamped Yes or No)
Name of Component IYDRAULIC NUBBERS IYDRAULIC NUBBERS OUR NUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 76181172-11 (VB) 1644-5-A (CYL) 90203740-9 (VB) 15156-62	National Board No. N/A N/A	Other Identification	Yes	N/A	Replaced, or Replacement (Code Stamped Yes or No) No No

information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-12-99 to 4-3-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NBBZZGANI, MD647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date:

	Baltin	ore Gas Electric	Company	<u>, </u>	Date: An	ril 12, 1999	
		(name)					
G&E I	Building, P.O.	Box 1475, Baltim (address)	ore, MD.	, 21203	Unit: <u>T</u>	<u>WO</u>	
. Plant:	Calvert (Cliffs Nuclear Pow (name)	er Plant	· · · · · · · · · · · · · · · · · · ·	R&R No:	<u>98-2-171</u>	
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657	-4702	MWO No	: <u>2199800581</u> (PO, job no.)	ili Light († 1 <mark>5</mark> 5
. Work Perf	formed by: B	altimore Gas Electors (na	tric, NEI	D, CCNPPD	T Authorizatio	ype Code Symbol S n No: <u>N/A</u> Exp I	tamp: <u>N/A</u> Date: <u>N/A</u>
1650 Cal	vert Cliffs Pa	rkway; Lusby, M	D 20657-	<u>-4702</u>	Section X	I Class: Two	
. Identificati	ion of System:	System Number:	<u>52</u>	System Na	ame: Safety	Injection	
. (a) Applica	ble Constructi	ion Code and Class	: <u>USAS</u>	B31.7 1969 ED. thi	ru 1971 ADD	<u>.</u>	
				airs/Replacements: <u>19</u> 19 and Replacement Co	992 Ed., Sum	Summer 83 Ad mer 92 Ad.(IV	
				-	1.1	Repaired.	ASME Code
Name of	Name of		National	Other	Year :	Replaced, or	Stamped
~πφυκαιί.	Manufacturer	Seriai Number	Board No.	Identification	Built	Replacement	(Yes or No)
			Board No.	Identification	Built	Replacement	(Yes or No)
YDRAULIC	GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A	N/A	Identification 2-52-5	Built N/A	Replacement	(Yes or No)
YDRAULIC NUBBERS YDRAULIC	GRINNELL	(CYL) 72237426-172 (VB)					
YDRAULIC NUBBERS YDRAULIC	GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A (CYL) 73306121-65 (VB)	N/A	2-52-5	N/A	Replaced	No
TYDRAULIC NUBBERS TYDRAULIC NUBBERS TYDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A (CYL) 73306121-65 (VB)	N/A	2-52-5	N/A	Replaced	No
YDRAULIC NUBBERS YDRAULIC NUBBERS Description	GRINNELL CORP. GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A (CYL) 73306121-65 (VB)	N/A	2-52-5	N/A	Replaced	No
YDRAULIC NUBBERS YDRAULIC NUBBERS Description	GRINNELL CORP. GRINNELL CORP.	(CYL) 72237426-172 (VB) 5825-2-A (CYL) 73306121-65 (VB) 7721B-2-A	N/A N/A CE ON SP	2-52-5	1998	Replaced	No

information in Items 1 through 6 on this rep of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-12-99$ to $4-7-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Dawrence Commissions: NBB226ANI MD647 Inspector's Signature National Board, State, and Endofsements
Date: <u>Opril 28, 1999</u>

1. Owner: _	Baltimore Gas Electric Company (name)				Date: April 12, 1999					
G&E	Building, P.O.	Box 1475, Baltin (address)	ore, MD	, 21203	τ	Unit: <u>Two</u> R&R No: <u>98-2-172</u> MWO No: <u>2199800582</u> (PO, job no.)				
2. Plant:	Calvert (Cliffs Nuclear Pow (name)	er Plant		R					
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657	<u>-4702</u>	N					
3. Work Peri	Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name)					T uthorization	ype Code Symbol Stam n No: <u>N/A</u> Exp Date	p: <u>N/A</u> : <u>N/A</u>		
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657	<u>-4702</u>	S	ection X	Class: Two			
Identificat	ion of System:	System Number:	<u>52</u>	Syste	m Name:	Safety 1	Injection			
5. (a) Applica	ble Constructi	on Code and Class	: <u>USAS</u>	B31.7 1969 EI). thru 19	71 ADD	•			
(b) Applica	ble Edition of	Section XI Utilize	d for Repa	airs/Replacemen			Summer 83 Adde mer 92 Ad.(TWE)			
. Identificat	ion of Compor	ents Repaired or F	Replaced,	and Replacemen						
Name of Component	Name of Manufacturer		National Board No.	Other Identification	Ye Bu			ASME Code tamped 'es or No)		
IYDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 73319134-18 (VB) 8109B-1-SP	N/A	2-52-9		N/A	Replaced	No		
IYDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 79404793-27 (VB) 80102860-9	N/A	2-52-9		1999	Replacement	No		
-						,				
Description ERFORMED		Æ MAINTENAN(CE ON SI	NUBBER: 2-52-	9					
Tests Cond	ducted: Hydrostatic:		Pne	Pneumatic:		Nominal Operating Pressure:				
	Pi	essure: N/A psi.		Test Temp			_	_		
OTE: Supportion in sheets is rec	Items I throu	s in form of lists, s gh 6 on this report	ketches, o	or drawings may	be used, p	provided ach shee	: (1) size is 8-1/2": et is numbered and	x 11", (2) the numb		

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached				
Certificate of Compliance				
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.				
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A				
Signed: Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title				
Certificate of Inservice Inspection				
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the				
components described in this Owner's Report during the period $1-12-99$ to $4-7-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.				
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.				
Robert Wavence Commissions: NB8226 ANT M)647 Inspector's Signature Commissions: National Board, State, and Endorsements				
Date: <u>April 28</u> 199 <u>9</u>				

	Baltimore Gas Electric Company (name)				Date: April 12, 1999						
G&E	G&E Building, P.O. Box 1475, Baltimore, MD, 21203 (address)					Unit: <u>Two</u>					
. Plant:	Calvert (Cliffs Nuclear Pow	er Plant		R&	R No:	<u>98-2-176</u>	* =			
1650 Cal	vert Cliffs Pa	rkway: Lusby, M (address)	D 20657-	4702	MWO No: 2199800587 (PO, job no.)						
. Work Per	formed by: B	altimore Gas Elect	ric, NEI	O, CCNPPD	Aut	7 horizatio	Type Code Symbol 8 on No: <u>N/A</u> Exp	Stamp: Date:_]	<u> </u>		
1650 Cal	vert Cliffs Par	rkway: Lusby, Mi (address)	D 20657-	4702	Sec	tion X	I Class: Two				
. Identificat	tion of System:	System Number:	<u>52</u>	System	Name: §	Safety	Injection				
	-	on Code and Class:	_								
		Section XI Utilized	4 1 22 1 3					d dan d) -		
(o) rippiio	2010 Daition of	Decidin Al Ollinza	i ioi Repa	ms/replacements			mer 92 Ad.(TV				
. Identificat	ion of Compor	ents Repaired or R	eplaced, a	and Replacement			146				
			op22002, u		compone	no.	Marin Salah	•	ASME		
•							Danainad		0-1-		
Name of	Name of	Manufacturers 1	National	Other	Year		Repaired,	Ston	Code		
	Name of Manufacturer		National Board No.	Other Identification	Year Built		Replaced, or Replacement		aped or No)		
Component	Manufacturer	Serial Number I	Board No.	Identification	Buil	t	Replaced, or Replacement		nped or No)		
YDRAULIC	Manufacturer GRINNELL	Serial Number I			Buil		Replaced, or		aped		
YDRAULIC	Manufacturer	Serial Number I (CYL) 73355668-203	N/A	Identification	Buil	t	Replaced, or Replacement		nped or No)		
Name of Component YDRAULIC NUBBERS	Manufacturer GRINNELL	(CYL) 73355668-203 (VB)98408-1- -9840-1-SP	N/A	Identification	Buil	t	Replaced, or Replacement		nped or No)		
YDRAULIC NUBBERS	Manufacturer GRINNELL CORP.	(CYL) 73355668-203 (VB)98408-1-5P	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC	Manufacturer GRINNELL	(CYL) 73355668-203 (VB)98408-1- -9840-1-SP	N/A	Identification	Built	t	Replaced, or Replacement		nped or No)		
YDRAULIC NUBBERS YDRAULIC	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 73355668-203 (VB)98408-1- 9840-1-SP 000 5/299 (CYL) 73355668-81	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC NUBBERS	GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC NUBBERS	GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A	Identification	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC NUBBERS Description	Manufacturer GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-203 (VB)98408-1- 98401-5P 00 5/199 (CYL) 73355668-81 (VB)	N/A N/A N/A	2-52-20 2-52-20	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC NUBBERS Description	Manufacturer GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-203 (VB) 9840B-1- 9840-1-SP	N/A N/A N/A	2-52-20 2-52-20	Built	N/A	Replaced, or Replacement Replaced		or No)		
YDRAULIC NUBBERS YDRAULIC NUBBERS Description	GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-203 (VB) 9840B-1- 9840-1-SP	N/A N/A N/A	2-52-20 2-52-20	Built	N/A 1997	Replaced, or Replacement Replaced	(Yes	No No		

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-12-99$ to $4-8-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert 1) Lawrence Commissions: <u>NB 8226 AVZ</u> , MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

G&E Building, P.O. Box 1475, Baltimore, MD, 21203 Calvert Cliffs Nuclear Power Plant (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) Type Code Symbo Authorization No. N/A. Exciton XI Class: Two (address) Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad.(1) Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturer Serial Number Board No. Identification Name of Manufacturer Serial Number Board No. Identification PyDRAULIC GRINNELL (CYL) (VB) (VB) (VB) (VB) (VB) (VB) (VB) (VB					
G&F Building, P.O. Box 1475, Baltimore, MD, 21203 [Address] Plant: Calvert Cliffs Nuclear Power Plant (name) MWO No: 219970451: (PO, job no.) Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) MWO No: 219970451: (PO, job no.) Type Code Symbo Authorization No: N/A Expaired, (address) Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 / 1992 Ed., Summer 92 Ad. (Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturer Serial Number Board No. Identification Name of Manufacturer Serial Number Board No. Identification WORAULIC CORP. 78325466-85 (VB) 78308457-121 Description of Work:					
Plant: Calvert Cliffs Nuclear Power Plant (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) MWO No: 219970451: (PO, job no.) Type Code Symbo Authorization No: N/A Ex 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad.(1) Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers National Other Year Replaced, or Replaced or Replaced, or Replaced, or Replaced (VB) NAME of Replaced (VB) NAME of Replaced (VB) TORAULIC GRINNELL (CYL) (CYL) 78325466-85 (VB) 78308457-121 DDRAULIC GRINNELL (CYL) (CYL) 76121499-446 (VB) B6987-118- D71C Description of Work:	Unit: Two				
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 MWO No: 219970451: (RO, job no.)					
Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) Type Code Symbo Authorization No: N/A Ex 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad. (I) Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturer Serial Number Board No. Identification DRAULIC GRINNELL (CYL) (CYB) 78308457-121 DRAULIC GRINNELL (CYL) 76121499-446 (VB) 1899 Replacement DRESCRIPTION OF Work:					
Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) Type Code Symbo Authorization No; N/A Exact Identification of System: System Number: 52 Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED, thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 / 1992 Ed., Summer 92 Ad.(1) Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers National Other Year Replaced, or Re	MWO No: 2199704515				
(name) Authorization No: N/A Ex 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad. (Identification of Components Repaired or Replaced, and Replacement Components: Identification of Components Repaired or Replaced, and Replacement Components: Replaced, or Replaced or Replaced, or Replaced or Replacement Components: Identification of Components Repaired or Replaced, and Replacement Components: Replaced, or Replacement Components: Replaced or Replacement Components: Replacement Components: Replacement Components: Replacement Replacement Components: Replacement Components: Replacement Components: Replacement Replacement Components: Replacement Replacement Components: Replacement Replacement Components: Replacement	Stamp: N/A				
Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad.(1) Identification of Components Repaired or Replaced, and Replacement Components: Identification of Components Repaired or Replaced, and Replacement Components: Repaired, Identification					
Identification of System: System Number: 52 System Name: Safety Injection (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad. (I) Identification of Components Repaired or Replaced, and Replacement Components: Identification of Components Repaired or Replaced, and Replacement Components:					
(a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 A 1992 Ed., Summer 92 Ad.(1) Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers Serial Number Board No. Identification Built Replaced, or Replacement DRAULIC GRINNELL (CYL) 78325466-85 (VB) 78308457-121 DRAULIC GRINNELL (CYL) 76121499-446 (VB) B6987-118- D71C DEScription of Work:	•				
Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers Serial Number Board No. Description of Work: Name of Manufacturer Serial Number Board No. Other Year Replaced, or Replaced, or Replaced, or Replaced Other Year Replaced, or Replaced No. Description of Work:					
Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers Serial Number Board No. Identification Built Replaced, or Replaced, or Replaced, or Replaced. DRAULIC GRINNELL (CYL) N/A 2-52-26 N/A Replaced UBBERS (VB) 78325466-85 (VB) 78308457-121 DRAULIC GRINNELL (CYL) N/A 2-52-26 1999 Replacement DRAULIC GRINNELL (CYL) N/A 2-52-26 1999 Replacement DRAULIC CORP. 76121499-446 (VB) B6987-118-D71C Description of Work:	ddenda				
Name of Manufacturer Serial Number Board No. Identification Built Replaced, or Replaced, or Replaced, or Replacement DRAULIC GRINNELL (CYL) JBBERS CORP. GRINNELL (CYL) 78325466-85 (VB) 78308457-121 DRAULIC GRINNELL CORP. GRINNELL (CYL) 76121499-446 (VB) B6987-118- D71C Description of Work:	WE/IWL)				
Name of Manufacturer National Board No. Identification Year Replaced, or Replacement	ASME				
DRAULIC UBBERS CORP. (CYL) 78325466-85 (VB) 78308457-121 (CYL) 76121499-446 (VB) B6987-118-D71C (CYB) 76121499-446 (VB) 7610100 (CYB) 761010	Code				
UBBERS CORP. 78325466-85 (VB) 78308457-121 DRAULIC GRINNELL (CYL) 76121499-446 (VB) B6987-118- D71C D71C Description of Work:	Stamped (Yes or No)				
UBBERS CORP. 78325466-85 (VB) 78308457-121 DRAULIC UBBERS CORP. 76121499-446 (VB) B6987-118-D71C Description of Work:	No				
78308457-121	1.0				
UBBERS CORP. 76121499-446 (VB) B6987-118- D71C					
Description of Work:	No				
Description of Work:	·				
D71C Description of Work:	l '				
•					
•					
•					
•					
RFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-26					
Fests Conducted: Hydrostatic: ☐ Pneumatic: ☐ Nominal Operating Pres	sure: \square				
Pressure: N/A psi. Test Temperature: N/A Deg.	v. <u>L</u>				
TE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8					

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
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Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 1, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
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Commissions: NB 7525 IBNA HO 765 Inspector's Signature Commissions: NB 7525 IBNA HO 765 National Board, State, and Endorsements
Date: <u>APRIL 14</u> 1999

=		As Required By	the Prov	risions of the A	SME Cod	le Secti	on XI				
1. Owner: _	Balti	more Gas Electric	Compan	<u>y</u>	I	Date: <u>M</u>	arch 29, 1999				
G&E	G&E Building, P.O. Box 1475, Baltimore, MD, 21203						Unit: <u>Two</u>				
2. Plant:	Calvert	(address) Cliffs Nuclear Pov	ver Plant	· ·	n tipe	&R No:	<u>98-2-179</u>	ingani Nata			
1650 Cal	vert Cliffs P	(name) arkway; Lusby, M	m 20657	1_4702		AWO N	· 2100000500				
	•	(address)		5*3 - T		MWO No: <u>2199800589</u> (PO, job no.)					
3. Work Perf	formed by: _1	Baltimore Gas Elec	etric, NE	D, CCNPPD		uthorizatio	Type Code Symbol St n No: <u>N/A</u> Exp D	amp: <u>N/A</u>			
1650 Cal	vert Cliffs P	arkway: Lusby, M	D 20657	<u>-4702</u>			I Class: One				
4. Identificat	ion of Systen	n: System Number:	: 52	Svst	em Name:	Safety	Injection				
		ction Code and Class	_	•		-		• .			
•	•	of Section XI Utilize	•					denda			
6. Identificati	ion of Compo	onents Repaired or I	Replaced,	and Replaceme			<u>imer 92 Ad.(TW</u>				
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Ye Bu		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)			
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-225 (VB) 4469-2-A	N/A	2-52-34		N/A	Replaced	No			
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73345359-66 (VB) 8678-B-2-A	N/A	2-52-34		1999	Replacement	No			
			-				<u> </u>				
						i					
7. Description	of Work:	. •									
PERFORMED	PREVENTI	IVE MAINTENAN	CE ON SI	NUBBER: 2-52	-34						
3. Tests Cond	ucted: 1	Hydrostatic:	Pne	eumatic: 🔲	No	ominal C	perating Pressur	re: 🔲			
	Pressure: N/A psi.			Test Temp	perature: 1		-	<u> </u>			
ntormation in	Items 1 thro	ets in form of lists, s ugh 6 on this report	ketches, o	or drawings may	y be used, j t, and (3) c	provided each she	l: (1) size is 8-1/2 et is numbered a	2"x 11", (2) nd the number			

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
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Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: NRCH 29, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
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components described in this Owner's Report during the period
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Commissions: National Board, State, and Endorsements
Date: <u>Cpril 28, 1999</u>

As Required By the Provisions of the ASME Code Section XI Date: March 20,1999 Baltimore Gas Electric Company (name) Unit: Two G&E Building, P.O. Box 1475, Baltimore, MD, 21203 (address) R&R No: 98-2-180 2. Plant: Calvert Cliffs Nuclear Power Plant 1650 Calvert Cliffs Parkway: Lusby, MD 20657-4702 MWO No: 2199800590 (PO, job no.) 3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD Type Code Symbol Stamp: Authorization No: N/A Exp Date: N/A 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 Section XI Class: One (address) System Name: Safety Injection 4. Identification of System: System Number: 52 5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. thru 1971 ADD. (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(TWE/TWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: **ASME** Repaired, Code Replaced, or Stamped Other Year Name of Manufacturers **National** Name of (Yes or No) Serial Number Board No. Identification Built Replacement Manufacturer Component No GRINNELL (CYL) N/A 2-52-38 N/A Replaced HYDRAULIC 91203758-8 SNUBBERS CORP. (VB) 16241-56 N/A 2-52-38 1998 Replacement No **HYDRAULIC** GRINNELL (CYL) 80102861-44 **SNUBBERS** CORP. (VB) 80102860-74 7. Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-52-38 Nominal Operating Pressure: Pneumatic: 8. Tests Conducted: Hydrostatic: Test Temperature: N/A Deg. Pressure: N/A psi.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 20, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Dawrence Commissions: NBBZZ6 ANI MD 647 Inspector's Signature National Board, State, and Endorsements
Date: <u>Opril 28,</u> 199 <u>9</u>

		As Required By t	he Provis	ions of the ASM	E Code Sect	ion XI			
. Owner: _	Baltime	ore Gas Electric (Company	 .	Date: A	pril 10, 1999			
G&E E	Building, P.O.	Box 1475, Baltim	ore, MD,	21203	Unit: <u>Two</u> R&R No: <u>98-2-181</u>				
. Plant:	Calvert C	liffs Nuclear Pow (name)	er Plant						
1650 Calv	ert Cliffs Par	kway; Lusby, M	D 20657-	4702	MWO N	(PO, job no.)			
Work Perfe	ormed by: <u>Ba</u>	ltimore Gas Elect	ric, NED	, CCNPPD	Authorizati	Type Code Symbol Stam ion No: <u>N/A</u> Exp Date	p: <u>N/A</u> :: N/A		
1650 Calv	ert Cliffs Par	kway: Lusby, M		4702	•	XI Class: One	·· <u></u>		
		System Number:		•	Name: Safety				
	• •	on Code and Class				-	•		
(b) Applical	ble Edition of :	Section XI Utilized	i for Repa	_		, Summer 83 Adde mmer 92 Ad.(IWE			
Identificati	on of Compone	ents Repaired or R	eplaced, a	nd Replacement C	components:	Repaired, Replaced, or S	ASME Code		
omponent	Manufacturer		Board No.	Identification	Built		tamped (es or No)		
YDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 72252902-159 (VB) 4873-2-A	N/A	2-52-43	N/A	Replaced	No		
YDRAULIC IUBBERS	GRINNELL CORP.	(CYL) 72253902-54 (VB) 3207-2-A	N/A	2-52-43	1998	Replacement	No		
			<u> </u>						
Danastest	-6117- 1		•						
Description RFORMED		E MAINTENAN(E ON SN	UBBER: 2-52-43					
Tests Cond	ucted: Hy	drostatic:	Pne	umatic:	Nominal	Operating Pressure	: 🗆		
	Pro	essure: N/A psi.		Test Tempera		_	_		
OTE: Suppliformation in	lemental sheets	s in form of lists, s	ketches, o	r drawings may be	used, provide	ed: (1) size is 8-1/2" eet is numbered and	x 11", (2)		

of sheets is recorded at the top of this form.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Senior Engineer Date: April 10, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period /-/3-99 to 4-/-99 , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or
connected with this inspection. Commissions: Maintal Board, State, and Endorsements Maintal Board, State, and En
Date:

1. Owner: _	Baltimo	re Gas Electric	Company	·	Date: M	arch 29, 1999	
G&E I	Building, P.O. 1	Box 1475, Baltin (address)	nore, MD,	21203	Unit: <u>T</u>	<u>wo</u>	•
2. Plant:	Calvert CI	iffs Nuclear Pow (name)	ver Plant		R&R No:	<u>98-2-182</u>	
1650 Cal	vert Cliffs Parl	cway: Lusby, M (address)	D 20657-	4702	MWO No	2199800592 (PO, job no.)	
3. Work Perf	formed by: <u>Bal</u>	timore Gas Elec	tric, NED	O, CCNPPD		Type Code Symbol St on No: <u>N/A</u> Exp I	
1650 Cal	vert Cliffs Parl	(address)	D 20657-	4702	Section X	I Class: One	
	•	System Number: n Code and Class		System Na B31.7 1969 ED. thr	ame: <u>Safety</u> u 1971 ADI		
(b) Applica	able Edition of S	Section XI Utilize	d for Repa	irs/Replacements: 19	983 Edition, 192 Ed., Sun		
. Identificat	ion of Compone	-4- Danai4 T		- 4 Daule 4 O			
Name of	Name of Manufacturer	Manufacturers	National	nd Replacement Cor Other Identification	Year	Repaired, Replaced, or Replacement	ASME Code Stamped (Ves. or. No.)
Name of Component	Name of	Manufacturers Serial Number		Other Identification	Year Built	Replaced, or Replacement	Code Stamped (Yes or No)
Name of Component	Name of Manufacturer	Manufacturers	National Board No.	Other	Year	Replaced, or	Code Stamped
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL) 72237426-21	National Board No.	Other Identification	Year Built	Replaced, or Replacement	Code Stamped (Yes or No)
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL)	National Board No. N/A	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL) 72237426-21 (VB)	National Board No. N/A	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of Component IYDRAULIC NUBBERS IYDRAULIC NUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL) 72237426-21 (VB)	National Board No. N/A	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of Component IYDRAULIC NUBBERS IYDRAULIC NUBBERS IYDRAULIC NUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL) 72237426-21 (VB) 6085-2-A	National Board No. N/A N/A	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of Component HYDRAULIC NUBBERS HYDRAULIC NUBBERS OF THE PROPERTY OF TH	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-19 (VB) 9929B-2-A (CYL) 72237426-21 (VB) 6085-2-A	National Board No. N/A N/A CE ON SN	Other Identification 2-52-44 2-52-44	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No No

of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Senior Engineer Date: March 29, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period/_3-99 _ to3-25-99 _, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Commissions: NB 8226 AUT MD 647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date:

		As Required By t	he Provis	ions of the ASM	ME Code	e Secti	on XI		
1. Owner: _	Baltim	ore Gas Electric (Company	44.	D	ate: <u>M</u>	arch 27, 1999		
G&E I	Building, P.O.	Box 1475, Baltim (address)	ore, MD,	21203	U	nit: <u>T</u>	<u>wo</u>		•
2. Plant:	Calvert (liffs Nuclear Pow (name)	er Plant		R	&R No:	<u>98-2-183</u>	•	
1650 Cal	vert Cliffs Par	rkway; Lusby, Mi (address)	D 20657-4	1702	M	WO No	2199704500 (PO, job no.)		
3. Work Perf	formed by: <u>Ba</u>	altimore Gas Elect	ric, NED	. CCNPPD	Au	thorizatio	Type Code Symbol S n No: <u>N/A</u> Exp I	tamp: <u>N//</u> Date: <u>N/A</u>	A_
1650 Cal	vert Cliffs Par	rkway; Lusby, Mi (address)	D_20657-4	1702	Se	ction X	I Class: One		
4. Identificati	ion of System:	System Number:	<u>52</u>	System	Name:	Safety	Injection	•	
5. (a) Applica	ble Constructi	on Code and Class	USAS E	31.1 1969 ED.	thur 19	71 ADE) .	•	
		Section XI Utilized			: <u>1983 E</u>	dition,			
6. Identificati	ion of Compor	ents Repaired or R	eplaced, a	nd Replacement	Compon	ents:			
Name of Component	Name of Manufacturer		National Board No.	Other Identification	Ye: Bu		Repaired, Replaced, or Replacement	ASMI Code Stamped (Yes or No)	,
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73306121-204 (VB) 8040-B-2-A	N/A	2-52-46		N/A	Replaced	No	
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 72252902-31 (VB) 6231B-2-A	N/A	2-52-46		1998	Replacement	No	
							1		
7. Description		/E MAINTENAN(CE ON SN	UBBER: 2-52-46	5				
8. Tests Cond	lucted: H	ydrostatic:	Pne	ımatic:	No	ominal (Operating Pressu	ure: 🗌	
	P	ressure: N/A psi.		Test Tempe	rature: 1	N/A De	g.		
NOTE: Supp	lemental shee	ts in form of lists, s	ketches, o	r drawings may l	oe used. 1	provide	d: (1) size is 8-1	/2"x 11" ((2)

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Senior Engineer Date: March 27, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-13-99$ to $3-24-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Warence Commissions: WB 8 226 ANI MD 647 Inspector's Signature National Board, State, and Endorsements
Date: <u>April 28,</u> 199 <u>9</u>

	<u> </u>	s Required By the	e Provisi	ons of the ASME	Code Section	n XI	
1. Owner:	Baltimo	re Gas Electric Co	ompany		Date: Ma	rch 27, 1999	
G&E B	uilding, P.O.	Box 1475, Baltimo	re, MD,	21203	Unit: <u>T</u>	<u>wo</u>	
2. Plant:	Calvert Cl	(address) iffs Nuclear Power	r Plant		R&R No:	98-2-184	
		(name)					
1650 Calv	ert Cliffs Parl	(address)	20657-4	1702	MWO No	: <u>2199704516</u> (PO, job no.)	
3. Work Perfo	ormed by: Bal	timore Gas Electr		, CCNPPD		ype Code Symbol St n No: <u>N/A</u> Exp I	
1650 Calv	ert Cliffs Pari	kway: Lusby, MD (address)	20657-4	1702	Section X	I Class: One	
4. Identificati	on of System:	System Number:	<u>52</u>	System 1	Name: Safety	<u>Injection</u>	
5. (a) Applicat	ble Construction	on Code and Class:	USAS I	331.7 1969 ED. tl	hru 1971 a dd.	,	
(b) Applica	ble Edition of	Section XI Utilized	for Repai	irs/Replacements:	1983 Edition,	Summer 83 Ad imer 92 Ad.(IV	denda VE/IWI
C TdomtiConti	an of Common	ents Repaired or Re	mlaced a	•		inici 32 Au.(14)	I E/I I I I
o. Idenuncau	on of Compon	ents Repaired of Re	piaccu, a	na replacement e	omponona.	Repaired,	ASME Code
Name of Component	Name of Manufacturer	5.500.101.001.000	lational oard No.	Other Identification	Year Built	Replaced, or Replacement	Stamped (Yes or No)
TRED ATT TO	CONDUCTI	1,000	N/A	2-52-50A	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-35	14/A H18/99	2-32-30A		Керіасса	
		(VB) 6 79398753-35 1	[\·•]77				
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-55	N/A	2-52-50A	1999	Replacement	No
SNODDERS	COM.	(VB)					
		80102860-13					
		-					
<u> </u>	1					<u>.l</u>	
7. Description	n of Work:	_					
PERFORMEI	PREVENTIV	Æ MAINTENANC	E ON SI	NUBBER: 2-52-50	A		
8. Tests Cond	fucted: H	ydrostatic:	Pne	eumatic: 🔲	Nominal	Operating Press	aure: 🔲
		ressure: N/A psi.		Test Temper	ature: N/A D	eg.	
NOTE: Supplinformation is	plemental shee	ts in form of lists, sigh 6 on this report	ketches, o	or drawings may bed on each sheet, a	e used, provide and (3) each sh	ed: (1) size is 8-3 eet is numbered	1/2"x 11", (2) and the number

of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 27, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period 1-13-99 to 3-27-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobut Dawrence Commissions: NB 8226 ANI MA 647 Inspector's Signature National Board, State, and Endorsements
Date: <u>April 28, 1999</u>

			tne Prov						
1. Owner:	Baltim	ore Gas Electric (name)	Company	<u>Y</u>	I	Date: M	arch 27, 1999		
G&E	Building, P.O.	Box 1475, Baltin (address)	nore, MD	. 21203	τ	Jnit: <u>1</u>	wo		-
. Plant:	Calvert C	Liffs Nuclear Pos (name)	wer Plant	· ·	F	&R No	<u>98-2-185</u>		-
1650 Cal	vert Cliffs Par	kway; Lusby, M (address)	ID 20657	-4702		AWO N	2199704507 (PO, job no.)		
. Work Per	formed by: Ba	altimore Gas Elec (r	etric, NE	D, CCNPPD	A	uthorizatio	Гуре Code Symbol S on No: <u>N/A</u> Ехр	Stamp: Date:_N	N/A //A
1650 Cal	vert Cliffs Par	kway; Lusby, M	ID 20657-	<u>-4702</u>	S	ection X	I Class: One	٠	
Identificat	tion of System:	System Number	: 52	System	Name:	Safety	Injection	•	
		on Code and Class							
		Section XI Utilize			<u>1992 I</u>	Ed., Sun	Summer 83 Ad imer 92 Ad.(TV		
Identificat	ion of Compon	ents Repaired or I	Replaced, a	and Replacement	Compor	nents:			
Name of omponent	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Ye		Repaired, Replaced, or	Stam	
				Identification	Bı	iilt	Replacement	(Yes o	r No)
	GRINNELL				В		Replacement	(Yes o	
YDRAULIC	GRINNELL CORP.	(CYL) 73306121-222 (VB) 8044-B-2-A	N/A	2-52-54	В	N/A	Replaced	(Yes	No
ORAULIC IUBBERS		(CYL) 73306121-222 (VB)			Bu			(Yes o	
DRAULIC UBBERS	CORP. GRINNELL	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL)	N/A	2-52-54	Bu	N/A	Replaced	(Yes	No
YDRAULIC NUBBERS YDRAULIC	CORP. GRINNELL	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL) 72252902-23 (VB)	N/A	2-52-54	B	N/A	Replaced	(Yes o	No
YDRAULIC JUBBERS YDRAULIC JUBBERS	CORP. GRINNELL	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL) 72252902-23 (VB)	N/A	2-52-54	В	N/A	Replaced	(Yes o	No
YDRAULIC TUBBERS YDRAULIC TUBBERS	GRINNELL CORP.	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL) 72252902-23 (VB)	N/A	2-52-54	В	N/A	Replaced	(Yes o	No
TORAULIC TUBBERS TORAULIC TUBBERS Description	GRINNELL CORP.	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL) 72252902-23 (VB)	N/A N/A	2-52-54		N/A	Replaced	(Yes o	No
VDRAULIC TUBBERS VDRAULIC TUBBERS Description	GRINNELL CORP. of Work:	(CYL) 73306121-222 (VB) 8044-B-2-A (CYL) 72252902-23 (VB) 6166-2-A	N/A N/A CE ON SN	2-52-54		N/A 1998	Replaced		No

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 27, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period /-/3-99 to 3-27-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor lies employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NB 7525 IBNA mD 765 Inspector's Signature Commissions: NB 7525 IBNA mD 765 National Board, State, and Endorsements
Date: <u>APRIL 15</u> 199 9

. Owner: _	Baltim	ore Gas Electric (name)	Company		Date:]	March 23, 1998	
G&E	Building, P.O.	Box 1475, Baltin	nore, MD,	21203	Unit:	Two	
Plant:	Calvert C	Tiffs Nuclear Pow	ver Plant	or or or the contract of the c	R&R N	o: <u>98-2-189</u>	
1650 Cal	vert Cliffs Par	kway: Lusby, M	D 20657-	4702	MWO	No: <u>2199704506</u> (PO, job no.)	
Work Peri	formed by: Ba	altimore Gas Elec (n	tric, NEI	D. CCNPPD	Authoriza	Type Code Symbol Stion No: N/A Exp	Stamp: <u>N/A</u> Date: <u>N/A</u>
1650 Cal	vert Cliffs Par	kway: Lusby, M (address)	D 20657-	4702		XI Class: Two	
Identificat	ion of System:	System Number:	<u>60</u>	System N	lame: Prim	ary Containmen	t Heaters
		•	_	B31.7 1969 ED. th			
				irs/Replacements: 1			idenda
						mmer 92 Ad.(TV	
Identificat	ion of Compon	ents Repaired or F	Replaced, a	and Replacement Co	omponents:		
Name of	ion of Compon Name of Manufacturer	Manufacturers	Replaced, a National Board No.	other Identification	omponents: Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Name of omponent	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Replaced, or Replacement	Code Stamped (Yes or No)
Name of omponent	Name of	Manufacturers	National	Other	Year	Replaced, or Replacement	Code Stamped
Name of omponent /DRAULIC IUBBERS /DRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222	National Board No.	Other Identification	Year Built	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent ODRAULIC TUBBERS ODRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL)	National Board No.	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent YDRAULIC TUBBERS YDRAULIC TUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222 (VB)	National Board No.	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent VDRAULIC IUBBERS VDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222 (VB)	National Board No.	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent TORAULIC UBBERS TORAULIC UBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222 (VB)	National Board No.	Other Identification	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent ODRAULIC TUBBERS ODRAULIC TUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222 (VB)	National Board No. N/A N/A	Other Identification 2-60-12 2-60-12	Year Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent YDRAULIC JUBBERS YDRAULIC JUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-3 (VB) 8613B-1-SP (CYL) 73355668-222 (VB) 9652B-1-SP	National Board No. N/A N/A CE ON SN	Other Identification 2-60-12 2-60-12	Year Built	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No No

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7.	- 11	CI	114		• •	

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Commissions: <u>NB8226 ANI MO647</u> Inspector's Signature Commissions: <u>NB8226 ANI MO647</u> National Board, State, and Endorsements
Date: <u>Spril 28, 199</u>

. Owner: _	Baltim	ore Gas Electric (name)	Company		D	ate: Ar	oril 1, 1999	
G&E	Building, P.O.	Box 1475, Baltim (address)	ore, MD,	21203	U	nit: <u>T</u>	<u>wo</u> .	
Plant:	Calvert C	liffs Nuclear Pow (name)	er Plant	——————————————————————————————————————	R	&R No:	<u>98-2-191</u>	
1650 Cal	vert Cliffs Par	kway: Lusby, M (address)	D 20657-	4702	M	IWO No	: <u>2199800593</u> (PO, job no.)	
Work Peri	formed by: Ba	Itimore Gas Elect	tric, NED	, CCNPPD	A	nhorizatio	Type Code Symbol S n No: <u>N/A</u> Exp I	stamp: <u>N/A</u> Date: <u>N/A</u>
1650 Cal-	vert Cliffs Par	kway: Lusby, M (address)	D 20657-	1702	Se	ection X	l Class: Two	•
Identificat	ion of System:	System Number:	<u>61</u>	System	Name:	Contai	nment Spray	-
(a) Applica	ible Construction	on Code and Class	: <u>USAS I</u>	B31.7 1969 ED.	thru 19	71 ADD	<u>.</u>	
(b) Applica	ible Edition of	Section XI Utilized	d for Repai	irs/Replacements:			Summer 83 Ad mer 92 Ad.(IV	
Identificat	ion of Compon	ents Repaired or R	Replaced, a	nd Replacement (
	Name of Manufacturer		National Board No.	Other Identification	Ye Bu		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Omponent / ORAULIC							Replaced, or	Code Stamped
ORAULIC TUBBERS	Manufacturer GRINNELL	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427	Board No.	Identification		ilt :	Replaced, or Replacement	Code Stamped (Yes or No)
ORAULIC TUBBERS	GRINNELL CORP. GRINNELL	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL)	Board No.	Identification 2-61-3		ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Name of omponent /DRAULIC IUBBERS /DRAULIC IUBBERS	GRINNELL CORP. GRINNELL	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427 (VB)	Board No.	Identification 2-61-3		ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
ORAULIC TUBBERS	GRINNELL CORP. GRINNELL	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427 (VB)	N/A N/A	Identification 2-61-3		ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
ORAULIC IUBBERS ORAULIC UBBERS	GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427 (VB)	N/A N/A	2-61-3 2-61-3		ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
DRAULIC UBBERS DRAULIC UBBERS Description	GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427 (VB)	N/A N/A	2-61-3 2-61-3		ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Omponent /DRAULIC IUBBERS /DRAULIC IUBBERS Description	GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	(CYL) 73355668-124 (VB) 9422B-1-SP (CYL) 73355668-427 (VB) 9854B-1-SP	N/A N/A N/A CE ON SN	2-61-3 2-61-3	Bu	N/A 1998	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No No

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Applicable Manufacturer's Data Reports to be Attached						
Certificate of Compliance						
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.						
Type Code Symbol Stamp: N/A Expiration Date: N/A						
Signed: Dan Hoang Senior Engineer Date: April 1, 1999 Owner or Owner's Designee, Title						
Certificate of Inservice Inspection						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the						
components described in this Owner's Report during the period/-/3-99_ to3-29-99_ , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.						
Lobert Dawrence Commissions: NB8ZZGANI, MD647 Inspector's Signature Commissions: NB8ZZGANI, MD647 National Board, State, and Endorsements						
Date: <u>April 28,</u> 199 <u>9</u>						

	<u> </u>	As Required by	the Piovi	SIGHS OF THE ASIA	ie coul	Secur	2H VI			
1. Owner: Baltimore Gas Electric Company (name)					Date: April 10, 1999					
G&E Building, P.O. Box 1475, Baltimore, MD, 21203 (address)					Unit: <u>Two</u>					
2. Plant: Calvert Cliffs Nuclear Power Plant (name)					R&R No: <u>98-2-192</u>					
1650 Calvert Cliffs Parkway: Lusby, MD 20657-4702 (address)					MWO No: <u>2199800595</u> (PO, job no.)					
3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name)					Type Code Symbol Stamp: N/A Authorization No: N/A Exp Date: N/A					
1650 Cal	vert Cliffs Par	kway: Lusby, M	D_20657-	4702	Se	ction X	I Class: Two			
4. Identificat	ion of System:	•	: 61	System	Name:	Contai	nment Sprav	÷		
	-	_		B31.7 1969 ED. t				•		
,				airs/Replacements:				dend		
			· /				mer 92 Ad.(TW	E/IV	VL)	
6. Identificati	ion of Compor	ents Repaired or I	Replaced,	and Replacement C	Compon	ents:			ASME	
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Yes Bui		Repaired, Replaced, or Replacement	Stam (Yes	Code	
HYDRAULIC	GRINNELL	(CYL)	N/A	2-61-4		N/A	Replaced	. 1	No	
SNUBBERS	CORP.	73345358-78 (VB) 8755B-1-SP				• :				
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-61	N/A	2-61-4		1999	Replacement		No	
SNUBBERS	CORP.	79404793-61 (VB) 79398753-202								
										
								·		
7. Description PERFORMED		Æ MAINTENAN	CE ON SI	NUBBER: 2-61-4				•		
8. Tests Cond	lucted: H	ydrostatic:	Pne	eumatic:	No	minal C	Operating Pressu	re: 「	1	
Pressure: N/A psi.				Test Temperature: N/A Deg.						
information in	Items 1 throu	s in form of lists, gh 6 on this report p of this form.	sketches, o t is include	or drawings may be ed on each sheet, a	e used, p	provided	l: (1) size is 8-1/	/2"x 1 and th	1", (2) se numbe	

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Owner's Designee, Title Dan Hoang Date: April 10, 1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-13-99$ to $4-2-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Inspector's Signature Commissions: NB8ZZGANI MD647 National Board, State, and Endorsements
Date:

As Required By the Provisions of the ASME Code Section XI

1. Owner:	. Owner: Baltimore Gas Electric Company (name)					Date: March 29, 1999				
G&E E	Building, P.O.	Box 1475, Baltin	nore, MD,	21203	Unit	:: <u>T</u>	<u>wo</u>			
2. Plant:	Calvert C	liffs Nuclear Pov	ver Plant	<u> </u>	R&I	R No:	<u>98-2-193</u>			
1650 Calv	ert Cliffs Par	kway: Lusby, N (address)	ID 20657-	4702	MW	O No	(PO, job no.)			
3. Work Perfe	ormed by: Ba	ltimore Gas Elec (r	etric, NED	, CCNPPD	Autho		Type Code Symbol Sta n No: <u>N/A</u> Exp Da			
1650 Calv	ert Cliffs Par	kway: Lusby, M (address)	ID 20657-	4702	Sect	ion X	I Class: <u>Two</u>			
	•	System Number			_		Generator Blow	down		
(b) Applica	ble Edition of	Section XI Utilize	ed for Repa	B31.7 1969 ED. the irs/Replacements: 1 and Replacement Co	1983 Edi 1992 Ed.	tion, , Sun	Summer 83 Add			
Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built		Repaired, Replaced, or Replacement	Code Stamped (Yes or No)		
Сопролет	Mandiacturei	Beriai Number	Doute Ivo.	Iochuneation	Duin		керисенси	(163 OF 140)		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404794-86 (VB) 80102860-15	N/A	2-63-2	1	N/A	Replaced	No		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-56 (VB) 80102860-7	N/A	2-63-2	1	1998	Replacement	No		
							<u> </u>			
	PREVENTIV	Æ MAINTENAN			N T		· · · · · · · · · · · · · · · · · · ·			
8. Tests Cond		ydrostatic: ressure: N/A psi.		umatic: Test Tempera			Operating Pressur	ге: 🔲		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp:N/A Expiration Date:N/A
Signed: Dan Hoang Senior Engineer Date: March 29, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period 1-13-99 to 3-23-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Dawrence Commissions: <u>NBBZZGANZ MD647</u> Inspector's Signature Commissions: <u>NBBZZGANZ MD647</u> National Board, State, and Endorsements
Date: <u>Opril 30,</u> 1999

1. Owner:	Baltimo	ore Gas Electric Con (name)	npany		Date: An	<u>ril 3, 1999</u>	****
G&E B	uilding, P.O.	Box 1475, Baltimore (address)	, MD, 2	1203	Unit: T	<u>wo</u>	. +4
2. Plant:	Calvert C	liffs Nuclear Power (name)	Plant	1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 1909 - 	R&R No:	<u>98-2-194</u>	
1650 Caly	ert Cliffs Par	kway; Lusby, MD (address)	20657-41	702	MWO No	: <u>2199704437</u> (PO, job no.)	en e
3. Work Perfe	ormed by: Ba	ltimore Gas Electric (name)		CCNPPD		Type Code Symbol Stam n No: <u>N/A</u> Exp Date	
1650 Calv	ert Cliffs Par	kway; Lusby, MD (address)	20657-41	702	Section X	I Class: Two	
4. Identificati	ion of System:	System Number: 63		System N	ame: Steam	Generator	
		Section XI Utilized for Replements Repaired or Replementary		. <u>1</u>	992 Ed., Sun	nmer 92 Ad.(IWE. Repaired,	
Component	Manufacturer	Serial Number Boa	rd No.	Identification	Built		tamped (es or No)
Component	Manufacturer			Identification	Built	Replacement (1	tamped (es or No)
Component HYDRAULIC			rd No.		,		tamped
HYDRAULIC SNUBBERS HYDRAULIC	Manufacturer GRINNELL	(CYL) 33156120-9 (VB)	N/A 	Identification	Built	Replacement (1	tamped (es or No)
	GRINNELL CORP. GRINNELL	(CYL) 33156120-9 (VB) VB-11/VB-24 (CYL) (CYL) 33156120-史子	N/A 	Identification 2-63-19	Built N/A	Replacement (1	tamped (ses or No)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) - information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Pressure: N/A psi.

Test Temperature: N/A Deg.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 3, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period _/-/3-99 to3-26-99 , and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Surve Commissions: NBB226 ANI MD647 Inspector's Signature National Board, State, and Endorsements
Date:

98-2-195 : 2199704492 (PO, job no.) 'ype Code Symbol Stamp:N/A I Class: Two Generator Summer 83 Addenda
: 2199704492 (PO, job no.) Type Code Symbol Stamp: N/A n No: N/A Exp Date: N/A I Class: Two Generator
(PO, job no.) Type Code Symbol Stamp: N/A n No: N/A Exp Date: N/A I Class: Two Generator
n No: <u>N/A</u> Exp Date: <u>N/A</u> I Class: <u>Two</u> Generator
<u>Generator</u>
Summer 83 Addenda
Summer 83 Addenda
mer 92 Ad.(TWE/TWL)
ASMI Repaired, Code Replaced, or Stamped Replacement (Yes or No)
Replaced No
Replacement No
Operating Pressure:

of sheets is recorded at the top of this form.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Owner or Owner's Designee, Title Date: April 3, 1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-13\cdot99$ to $1-2\cdot99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Laurence Commissions: NB8226 ANT MD647 Inspector's Signature National Board, State, and Endorsements
Date: May 11, 1999

l. Owner: _	Baltimo	ore Gas Electric (name)	Company		Date: A	oril 3, 1999	
G&E B	uilding, P.O.	Box 1475, Baltin (address)	ore, MD,	21203	Unit: 1	<u>wo</u>	
2. Plant:	Calvert C	liffs Nuclear Pow (name)	ver Plant		R&R No	<u>98-2-196</u>	
1650 Cal	ert Cliffs Par	kway; Lusby, M (address)	D 20657-	4702	MWO N	(PO, job no.)	
. Work Perf	ormed by: Ba	ltimore Gas Elec	tric, NEI	O, CCNPPD		Гуре Code Symbol Starr on No: <u>N/A</u> Exp Dat	
1650 Caly	ert Cliffs Par	kway: Lusby, M (address)	D 20657-	4702	Section >	I Class: Two	
. Identificati	ion of System:	System Number:	: <u>63</u>	System N	Vame: Steam	Generator	
(b) Applica	ble Edition of	Section XI Utilize	ed for Repa	irs/Replacements: 1		Summer 83 Addenmer 92 Ad.(TWE	
Name of	Name of	Manufacturers	National	and Replacement Co	omponents:	Repaired, Replaced, or	ASME Code Stamped
	• •	- - -	Ī.,	and Replacement Co	omponents:	Repaired, Replaced, or	ASME Code
Name of Component	Name of	Manufacturers	National	and Replacement Co	omponents:	Repaired, Replaced, or	ASME Code Stamped
Name of	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 33156120-42 (VB)	National Board No.	Other Identification	omponents: Year Built	Repaired, Replaced, or 8 Replacement (ASME Code Stamped Yes or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 33156120-42 (VB) ZB-6/ZB-15 (CYL) 33156120-47 (VB)	National Board No.	Other Identification	Year Built	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Test Temperature: N/A Deg.

Pressure: N/A psi.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A
Signed: Dan Hoang Senior Engineer Date: April 3, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-13-99$ to $14-1-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Lawrence Commissions: NBBZZ6 ANI MD647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date: <u>Opril 30, 1999</u>

1. Owner: Baltimore Gas Electric Company (name) G&E Building, P.O. Box 1475, Baltimore, MD, 21203 Quidenes) 1650 Calvert Cliffs Nuclear Power Plant (name) 1650 Calvert Cliffs Parkway: Lastby, MD (20657-4702 (name)) 3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) 1650 Calvert Cliffs Parkway: Lastby, MD 20657-4702 Quidenes) 3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) 1650 Calvert Cliffs Parkway: Lastby, MD 20657-4702 Quidenes) 4. Identification of System: System Number: 63 System Name: Steam Generator 5. (a) Applicable Construction Code and Class: CE 8067-487-503 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWIL) 6. Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturer National Other Year Replaced, Stamped Replacement Components: Corponent Name of Name of Section Number Board No. Identification Built Replaced No. Number Serial Number Board No. Identification of Serial Number Serial Number Board No. Identification Other Year Replaced, Corponent No. Identification Other Year Replaced, Stamped Replacement (Yes or No.) HYDRAULIC GRINNELL (CYL) SNUBBERS CREATED N/A 2-63-26 N/A Replaced No. In SNUBBERS CORP. In State St			As Required By t	ne Provis	sions of the ASM	E Code	Secur	n AI				
(address) 2. Plant: Calvert Cliffs Nuclear Power Plant (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) 3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) 4. Identification of System: System Number: 63 System Name: Steam Generator 5. (a) Applicable Construction Code and Class: CE 8067-487-503 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: ASME Code Name of Name of Manufacturers National Other Year Replaced, Stamped Code Stamped Serial Number Board No. Mentification Built Replaced (Yes or No) HYDRAULIC GRINNELL (CVL) XAAG9443- (VB) (VB) (VB) (VB) (VB) (VB) (VB) (VB)	1. Owner:							Date: March 31, 1999				
2. Plant: Calvert Cliffs Nuclear Power Plant (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (nddres) 3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) 1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (nddres) 4. Identification of System: System Number: 63 System Name: Steam Generator 5. (a) Applicable Construction Code and Class: CE 8067-487-503 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufactures Serial Number Board No. Identification Built Replaced, or Shumbers Code Component Manufactures Serial Number Board No. Identification Built Replaced No. NO							Unit: <u>Two</u>					
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 MWO No: 2199800596 (PO, job no.)	2. Plant: Calvert Cliffs Nuclear Power Plant							R&R No: <u>98-2-197</u>				
3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name) Type Code Symbol Stamp: N/A Exp Date: N/A 1650 Calvert Cliffs Parkway: Lusby, MD 20657-4702 Section XI Class: Two (address)	1650 Calv	ert Cliffs Par	kway: Lusby, M	D 120657-	4702	MW	/O No					
4. Identification of System: System Number: 63 System Name: Steam Generator 5. (a) Applicable Construction Code and Class: CE 8067-487-503 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturer National Other Year Replaced, or Stamped Code Shill Manufacturer Serial Number Board No. Identification Replacement (Yes or No) HYDRAULIC GRINNELL (CYL) XAAG9443-001 (VB) C1018-879 HYDRAULIC GRINNELL (CYL) N/A 2-63-26 N/A Replacement No SNUBBERS CORP. 33156120-36 (VB) ZB-24/ZB-25 N/A 2-63-26 To Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: Nominal Operating Pressure:	3. Work Perfo	ormed by: Ba	ltimore Gas Elect		O, CCNPPD	Auth		ype Code Symbol Sta				
4. Identification of System: System Number: 63 System Name: Steam Generator 5. (a) Applicable Construction Code and Class: CE 8067-487-503 (b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Name of Manufacturer Serial Number Board No. Identification Built Replaced, or Replaced, or Replaced, or Replaced, or Replaced, or Replaced (Yes or No) HYDRAULIC GRINNELL (CYL) N/A 2-63-26 N/A Replaced No HYDRAULIC GRINNELL (CYL) XAAG9443- 001 (VB) C1018-879 HYDRAULIC GRINNELL (CYL) 33156120-36 (VB) ZB-24/ZB-25 N/A 2-63-26 1999 Replacement No 7. Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure: Nominal Operating Pressure:	1650 Calv	ert Cliffs Par		D 20657-	4702	Sect	ion X	Class: Two		- :		
(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda 1992 Ed., Summer 92 Ad.(IWE/IWL) 6. Identification of Components Repaired or Replaced, and Replacement Components: Name of	4. Identificati	on of System:		<u>63</u>	System	Name: S	team !	<u>Generator</u>				
6. Identification of Components Repaired or Replaced, and Replacement Components: Name of Name of Manufacturers	5. (a) Applical	ble Constructi	on Code and Class	: CE 806	<u> </u>							
Name of Name of Manufacturers Serial Number	(b) Applica	ble Edition of	Section XI Utilized	d for Repa	irs/Replacements:					_		
Name of Component Name of Manufacturers Serial Number Board No. Identification Built Replaced, or Replaced (Yes or No) HYDRAULIC GRINNELL (CYL) XAAG9443- 001 (VB) C1018-879 CORP. 33156120-36 (VB) ZB-24/ZB-25 N/A 2-63-26 1999 Replacement No 7. Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: National Description of Pressure: Name of Manufacturer Serial Number Board No. Identification Built Replaced, or Replaced, or Replaced, or Replacement (Yes or No) No Stamped (Yes or No)	6. Identificati	on of Compor	ents Repaired or R	Replaced, a	and Replacement (Componer	nts:	•	. А	SME		
SNUBBERS CORP. XAAG9443- 001 (VB) C1018-879 HYDRAULIC GRINNELL (CYL) SNUBBERS CORP. 33156120-36 (VB) ZB-24/ZB-25 7. Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:								Replaced, or	Stampe	d .		
7. Description of Work: PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:	the state of the s		XAAG9443- 001 (VB)	N/A	2-63-26		N/A	Replaced]	No		
PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:			33156120-36 (VB)	N/A	2-63-26		1999	Replacement		No		
PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:												
PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-63-26 8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:	· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>	<u> </u>	<u> </u>						
8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:	-											
· · · · · · · · · · · · · · · · · · ·	PERFORMEI	PREVENTI	VE MAINTENAN	CE ON SI	NUBBER: 2-63-26	5						
Pressure: N/A psi. Test Temperature: N/A Deg.	8. Tests Cond				eumatic: 🔲	Non	ninal (Operating Pressu	re: 🔲			
		P	ressure: N/A psi.		Test Temper	rature: N	/A Do	eg.	1011	III . 405		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9	R	et	ma	rl	ks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 31, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period /-/3-99 to 3-30-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: 7525 NB 18NA MD 765 Inspector's Signature Commissions: 7525 NB 18NA MD 765 National Board, State, and Endorsements
Date: APRIL 14 1999

. Owner:	D-142	some Car Black		_	_		•		
OWINCE.	nijird_	nore Gas Electri (name)	c Company	<u>y</u>	D	ate: A	<u>pril 10, 1999</u>	10.	
G&E	Building, P.O	Box 1475, Balt (address)	imore, MD	. 21203	U	nit: <u>]</u>	<u>rwo</u>		
Plant: _	Calvert (Cliffs Nuclear Po (name)	wer Plant		R	&R No	: <u>98-2-198</u>		
1650 Ca	lvert Cliffs Pa	rkway; Lusby, 1 (address)	MD 20657	<u>-4702</u>	M	WO N	o: <u>2199704508</u> (PO, job no.)	• •	
			(name)		A u	nthorizatio	Type Code Symbol ton No: <u>N/A</u> Exp	Stamp: Date:_ <u>N</u>	<u>N/A</u>
1650 Ca	lvert Cliffs Pa	rkway; Lusby, l (address)	MD 20657-	4702	Se	ction 3	I Class: One		
Identifica	tion of System:	System Numbe	er: <u>64</u>	System	Name:	Reacto	or Coolant	• *	
(a) Applic	able Constructi	on Code and Cla	ss: <u>USAS</u>	B31.7 1969 ED.					
				nirs/Replacements				ddanda	
					1992 E	d., Sun	mer 92 Ad.(TV	VE/IW	L)
Identificat	ion of Common	ents Donoisod es	Displaced	and Replacement					
	nou of Combor	ients repaired or	Replaced, a	ma kepiacement	Combon	ents:			
	uon or Compor	ients Repaired or	Replaced, a	and Replacement	Compon	ents:			ASME
ame of	Name of	Manufacturers	National	Other	Compone Yea	* .	Repaired, Replaced, or		Code
ame of			i - Santi		• :	r			Code ed
ame of mponent	Name of	Manufacturers Serial Number	National Board No.	Other Identification	Yea	r lt	Replaced, or Replacement	Stamp (Yes o	Code ed r No)
ame of mponent	Name of Manufacturer	Manufacturers Serial Number (CYL) 73326235-49	National	Other	Yea	r	Replaced, or	Stamp (Yes o	Code ed
ame of mponent	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB)	National Board No.	Other Identification	Yea	r lt	Replaced, or Replacement	Stamp (Yes o	Code ed r No)
ame of mponent DRAULIC JBBERS	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP	National Board No.	Other Identification	Yea	r lt	Replaced, or Replacement	Stamp (Yes o	Code ed r No)
DRAULIC DRAULIC DRAULIC DRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL)	National Board No.	Other Identification	Yea	r lt	Replaced, or Replacement	Stamp (Yes or	Code ed r No)
ame of apponent DRAULIC JBBERS DRAULIC	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01	National Board No.	Other Identification	Yea	ur ilt N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No) No
ame of imponent DRAULIC IBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL)	National Board No.	Other Identification	Yea	ur ilt N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No) No
ame of imponent DRAULIC IBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification	Yea	ur ilt N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No) No
ame of mponent DRAULIC DBBERS DRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification	Yea	ur ilt N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No) No
DRAULIC DRAULIC DRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification	Yea	ur ilt N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No)
PRAULIC DRAULIC DRAULI	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification	Yea Bui	N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No) No
DRAULIC DRAULIC DRAULIC DRAULIC DRAULIC DBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification 2-64-9 2-64-9	Yea Bui	N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No)
DRAULIC JBBERS DRAULIC JBBERS DRAULIC JBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB)	National Board No.	Other Identification 2-64-9 2-64-9	Yea Bui	N/A	Replaced, or Replacement Replaced	Stamp (Yes or	Code ed r No)
DRAULIC JBBERS DRAULIC JBBERS DRAULIC JBBERS DESCRIPTION DESCRIPTION FORMED	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB) 9126B-1-SP	National Board No. N/A N/A N/A	Other Identification 2-64-9 2-64-9 UBBER: 2-64-9	Yea Bui	N/A	Replaced, or Replacement Replaced Replaced	Stamp (Yes or	Code ed r No)
DRAULIC JBBERS DRAULIC JBBERS DRAULIC JBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-49 (VB) 8300B-1-SP (CYL) C-98-10-01 (VB) 9126B-1-SP	National Board No. N/A N/A N/A Phere	Other Identification 2-64-9 2-64-9	Yea Bui	N/A 1998	Replaced, or Replacement Replaced Replaced Replaced	Stamp (Yes or	Code ed r No)

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 10, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-14-99$ to $4-6-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Dawrence Commissions: NB8226 WI MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

As Required By the Provisions of the ASME Code Section	ΧI
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1. Owner: _	Baltimo	re Gas Electric (Company		Date: A	April 9, 1999	
C&F P	Ruilding PA	(name) Box <u>1475, Baltim</u> e	ore. MD	21203	Unit:	Two	
GGED	<u> </u>	(address)	UIC, IVAD,	21200	Omt.	<u>Time</u>	
2. Plant:	Calvert Cl	iffs Nuclear Power (name)	er Plant	•**	R&R N	io: <u>98-2-199</u>	
1650 Calv	<u>ert Cliffs Parl</u>	(address)	D 20657-4	1702	MWO	No: <u>2199704505</u> (PO, job no.)	
3. Work Perfe	ormed by: _Bal	timore Gas Elect	ric, NED	, CCNPPD	Authoriza	Type Code Symbol S ation No: <u>N/A</u> Exp	
1650 Calv	vert Cliffs Parl	(address)	D 20657-4	1702	Section	XI Class: One	
4. Identificati	ion of System:	System Number:	<u>64</u>	System N	ame: Reac	tor Coolant	•
5. (a) Applicat	ble Constructio	n Code and Class:	USAS E	331.7 1969 ED. th	ru 1971 AI	<u>DD.</u>	
				irs/Replacements: 1			ddenda
(a) - shhiron	will VI L			_			
				<u>1</u>	772 Ea., St	ummer 92 Ad.(IV	1 14 1 1 1 1
i. Identificati	ion of Compone	ents Renaired or R	eplaced, a			umme <u>r 92 Au.(11</u>	· · ·
i. Identificati	ion of Compone	ents Repaired or R	eplaced, a	nd Replacement Co			ASM
i. Identificati	Name of	Manufacturers 1	National	nd Replacement Co	mponents:	Repaired, Replaced, or	ASM Code Stamped
		Manufacturers 1		nd Replacement Co	mponents:	Repaired,	ASM Code
Name of Component	Name of	Manufacturers I Serial Number E	National	nd Replacement Co	mponents:	Repaired, Replaced, or Replacement	ASM Code Stamped
Name of Component	Name of Manufacturer	Manufacturers Serial Number E (CYL) 73345358-59	National Board No.	nd Replacement Co Other Identification	mponents: Year Built	Repaired, Replaced, or Replacement	ASM Code Stamped (Yes or No
Name of	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 73345358-59 (VB)	National Board No.	nd Replacement Co Other Identification	mponents: Year Built	Repaired, Replaced, or Replacement	ASM Code Stamped (Yes or No
Name of Component HYDRAULIC SNUBBERS	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-59 (VB) 8614B-1-SP	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 73345358-59 (VB)	National Board No.	nd Replacement Co Other Identification	mponents: Year Built	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC SNUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC INUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC SNUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No.	Other Identification	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC NUBBERS IYDRAULIC NUBBERS IYDRAULIC NUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB) 10168B-1-SP	National Board No. N/A N/A	Other Identification 2-64-12	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component IYDRAULIC NUBBERS IYDRAULIC NUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number E (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB)	National Board No. N/A N/A	Other Identification 2-64-12	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS '. Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73345358-59 (VB) 8614B-1-SP (CYL) 74402396-163 (VB) 10168B-1-SP	National Board No. N/A N/A N/A CE ON SN	Other Identification 2-64-12	Year Built N/A	Repaired, Replaced, or Replacement Replaced	ASM Code Stamped (Yes or No No

of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Dan Hoang
Signed: Senior Engineer Date: April 9, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period 1-44-99 to 4-8-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Dawrence Commissions: NBBZZGNI MB647 Inspector's Signature National Board, State, and Endorsements
Date: <u>Opril 30, 1999</u>

A			_					
Owner: _	Baltii	more Gas Electric (name)	Company	<u>'</u>	Da	te: <u>Ar</u>	ril 9, 1999	
G&E	Building, P.C	Box 1475, Baltir	nore, MD	, 21203	Un	it: <u>T</u>	<u>wo</u>	
Plant:	Calvert	Cliffs Nuclear Pov	ver Plant	·	R&	kR No:	<u>98-2-200</u>	
1650 Cal	vert Cliffs Pa	arkway; Lusby, N (address)	ID 20657	<u>-4702</u>	Μ\	WO No	: <u>2199800597</u> (PO, job no.)	
Work Per	formed by: <u>B</u>	Saltimore Gas Elec (r	ctric, NE	D, CCNPPD	Auti	7 horizatio	'ype Code Symbol S n No: <u>N/A</u> Exp I	tamp: <u>N/A</u> Date: <u>N/A</u>
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	ID 20657	<u>-4702</u>	Sec	tion X	I Class: One	•
Identificat	ion of System	: System Number	: <u>64</u>	System 1	Name:]	Reacto	r Coolant	-
(a) Applica	able Construct	tion Code and Clas	s: <u>USAS</u>	B31.7 1969 ED. t	hru 197	1 ADD	<u>.</u>	1 - 1
(b) Applica	able Edition o	f Section XI Utilize	ed for Repa				Summer 83 Ad mer 92 Ad.(TW	
Identificat	ion of Compo	nents Repaired or 1	Replaced.				MC1 22 210.(11)	(LIIVIL)
Name of omponent	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Buih		Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
YDRAULIC TUBBERS	GRINNELL CORP.	(CYL) 74402396-178 (VB) 10281B-1-SP	N/A	2-64-12A		N/A	Replaced	No
UBBERS DRAULIC		74402396-178 (VB)	N/A	2-64-12A 2-64-12A		N/A 1997	Replaced Replacement	No
TUBBERS TORAULIC	CORP.	74402396-178 (VB) 10281B-1-SP (CYL) 73326235-87 (VB)	N/A					
TUBBERS TORAULIC	CORP.	74402396-178 (VB) 10281B-1-SP (CYL) 73326235-87 (VB)	N/A					
DRAULIC UBBERS Description	GRINNELL CORP.	74402396-178 (VB) 10281B-1-SP (CYL) 73326235-87 (VB) 8269B-1-SP	N/A CE ON SN	2-64-12A NUBBER: 2-64-12		1997	Replacement	No
TUBBERS TORAULIC TUBBERS Description	GRINNELL CORP. of Work: PREVENTI	74402396-178 (VB) 10281B-1-SP (CYL) 73326235-87 (VB) 8269B-1-SP	N/A CE ON SN	2-64-12A	A Non	1997	Replacement Perating Pressu	No

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Senior Engineer Date: April 9, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period $1-14-99$ to $4-8-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NBBZZGANI MO647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date:

Authorization No: N/A Exp Date: N/A

FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

	As Required By the Provision	ns of the ASME Code Section XI	
1. Owner:	Baltimore Gas Electric Company	Date: March 20, 19) 99
	(name)		

G&E Building, P.O. Box 1475, Baltimore, MD, 21203 Unit: Two

2. Plant: Calvert Cliffs Nuclear Power Plant R&R No: 98-2-201

1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 MWO No: 2199704498 (address) (PO, job no.)

3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD

Type Code Symbol Stamp:

1650 Calvert Cliffs Parkway: Lusby, MD 20657-4702 Section XI Class: One

4. Identification of System: System Number: <u>64</u> System Name: <u>Reactor Coolant</u>

5. (a) Applicable Construction Code and Class: USAS B31.7 1969ED. thru 1971 ADD.

(b) Applicable Edition of Section XI Utilized for Repairs/Replacements: 1983 Edition, Summer 83 Addenda
1992 Ed., Summer 92 Ad.(IWE/IWL)

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement	Stamp (Yes o		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73355668-223 (VB) 9883B-A-SP	N/A	2-64-15	N/A	Replaced	i	No	
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 73326235-90 (VB) 8375B-1-SP	N/A	2-64-15	1999	Replacement		No	
				:]
									1

7.	Des	cric	tion	of	W	ork:

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-15

8. Tests Conducted: Hydrostatic: Pneumatic: Nominal Operating Pressure:

Pressure: N/A psi. Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp:N/A
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Pobert Dawrence Commissions: NB8ZZ6 WZ MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

	5 14 -	C Til	·		Date: Ar	ril 12, 1999	
l. Owner: _	Baltimo	re Gas Electric C (name)	ompany		Date. A)[II 12, 1999	
G&E I	uilding, P.O.	Box 1475, Baltimo (address)	ore, MD,	21203	Unit: <u>T</u>	<u>wo</u>	
. Plant:	Calvert Cl	iffs Nuclear Powe (name)	er Plant	<u>, tr</u>	R&R No:	<u>98-2-202</u>	
1650 Cal	ert Cliffs Parl	(address)	20657-4	4702	MWO No	: <u>2199704495</u> (PO, job no.)	•
. Work Perf	ormed by: Bal	timore Gas Elect	ric, NED	, CCNPPD		ype Code Symbol Star n No: <u>N/A</u> Exp Da	
1650 Cal	ert Cliffs Parl	(address)	20657-4	4702	Section X	I Class: One	e ^{n e}
l. Identificat	ion of System:	System Number:	<u>64</u>	System Na	me: Reacto	r Coolant	•
. (a) Applica	ble Constructio	n Code and Class:	USAS I	B31.7 1969 ED. thr	u 1971 ADD	<u>.</u>	•
		4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
(b) Applica	ble Edition of S	Section XI Utilized	I for Repa	irs/Replacements: 19		<u>Summer 83 Add</u> mer 92 Ad.(IW)	
					92 Ed., Sum		E/TWL)
				<u>19</u>	92 Ed., Sum		
		ents Repaired or R		<u>19</u>	92 Ed., Sum mponents: Year	mer 92 Ad.(IWI Repaired, Replaced, or	E/TWL) ASME
5. Identificate Name of Component	on of Compone Name of Manufacturer	ents Repaired or R Manufacturers Serial Number	eplaced, a	nd Replacement Con Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
5. Identificate Name of Component HYDRAULIC	Name of Manufacturer	Manufacturers Serial Number (CYL)	eplaced, a	19 and Replacement Cor	92 Ed., Sum mponents: Year	mer 92 Ad.(IWI Repaired, Replaced, or	ASME Code Stamped
5. Identificate Name of Component HYDRAULIC	on of Compone Name of Manufacturer	ents Repaired or R Manufacturers Serial Number	eplaced, a	nd Replacement Con Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
5. Identificat	Name of Manufacturer	Manufacturers Serial Number (CYL) 73326235-98 (VB) 8492B-1-SP (CYL) 73355668-436	eplaced, a	nd Replacement Con Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-98 (VB) 8492B-1-SP (CYL)	eplaced, a National Board No.	Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-98 (VB) 8492B-1-SP (CYL) 73355668-436 (VB)	eplaced, a National Board No.	Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-98 (VB) 8492B-1-SP (CYL) 73355668-436 (VB)	eplaced, a National Board No.	Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No)
Name of Component IYDRAULIC ENUBBERS IYDRAULIC ENUBBERS IYDRAULIC ENUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 73326235-98 (VB) 8492B-1-SP (CYL) 73355668-436 (VB) 6400B-2-A	eplaced, a National Board No. N/A N/A	Other Identification	192 Ed., Sum mponents: Year Built	Repaired, Replaced, or Replacement Replaced	ASME Code Stamped (Yes or No)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Pressure: N/A psi.

Test Temperature: N/A Deg.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period 1-14-99 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Surrence Commissions: NB 8226 ANT MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

1. Owner: _	er: Baltimore Gas Electric Company (name)				Date: April 10, 1999			
G&E Building, P.O. Box 1475, Baltimore, MD, 21203					Unit: <u>Two</u>			
2. Plant:						98-2-203	•	
1650 Cal-	vert Cliffs Par	kway: Lusby, M (address)	D 20657	-4702	MWO No	2199704512 (PO, job no.)		
3. Work Peri	formed by: Ba	ltimore Gas Elec (n	tric, NE	D, CCNPPD		Type Code Symbol Stan n No: <u>N/A</u> Exp Dat		
1650 Cal-	vert Cliffs Parl	kway; Lusby, M (address)	D 20657	<u>-4702</u>	Section X	I Class: One		
4. Identificat	ion of System:	System Number:	64	System Nar	ne: <u>Reacto</u>	r Coolant		
5. (a) Applica	ble Construction	on Code and Class	: USAS_	B31.7 1969 ED. thru	1971 ADD) <u>.</u>		
• • • • •				airs/Replacements: 193		_	nda	
(0)			- 10. 10p	•		mer 92 Ad.(TWE		
			•	199	2 Ed., Sum			
			•	•	2 Ed., Sum	nmer 92 Ad.(TWE	/TWL) ASME	
			•	and Replacement Com Other	2 Ed., Sum ponents:	Repaired, Replaced, or	/IWL)	
6. Identificat	ion of Compone	ents Repaired or F	Replaced,	and Replacement Com	2 Ed., Sum ponents:	Repaired, Replaced, or	ASME Code	
6. Identificat	ion of Compone	Manufacturers Serial Number (CYL) 79404793-58 (VB)	Replaced,	and Replacement Com Other	2 Ed., Sum ponents:	Repaired, Replaced, or	ASME Code	
6. Identificat Name of Component HYDRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 79404793-58	Replaced, a	and Replacement Com Other Identification	2 Ed., Sum ponents: Year Buik	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	
6. Identificat Name of Component HYDRAULIC	Name of Manufacturer GRINNELL CORP.	Manufacturers Serial Number (CYL) 79404793-58 (VB)	Replaced, a	and Replacement Com Other Identification	2 Ed., Sum ponents: Year Buik	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	
6. Identificat Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP.	CYL) 79404793-58 (VB) 80102860-3 (CYL) 79404793-5 (VB)	National Board No.	and Replacement Com Other Identification 2-64-19	Ponents: Year Built N/A	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	
6. Identificat Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP.	CYL) 79404793-58 (VB) 80102860-3 (CYL) 79404793-5 (VB)	National Board No.	and Replacement Com Other Identification 2-64-19	Ponents: Year Built N/A	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	
6. Identificat Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP.	CYL) 79404793-58 (VB) 80102860-3 (CYL) 79404793-5 (VB)	National Board No.	and Replacement Com Other Identification 2-64-19	Ponents: Year Built N/A	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	
6. Identificat Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	CYL) 79404793-58 (VB) 80102860-3 (CYL) 79404793-5 (VB)	National Board No.	and Replacement Com Other Identification 2-64-19	Ponents: Year Built N/A	Repaired, Replaced, or S Replacement (ASME Code Stamped Yes or No)	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Test Temperature: N/A Deg.

Pressure: N/A psi.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 10, 1999
Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Deurence Commissions: WB8226ANI, MD647 Inspector's Signature Commissions: National Board, State, and Endorsements
Date:

1. Owner: _	Baltin	ore Gas Electric	Company		r	ate: <u>Ma</u>	rch 29, 1999			
G&E I	(name) G&E Building, P.O. Box 1475, Baltimore, MD, 21203						Unit: Two			
(address) Plant: Calvert Cliffs Nuclear Power Plant (name)					, .	<u>1</u>	<u> </u>			
					R	&R No:	<u>98-2-204</u>			
1650 Cal	vert Cliffs Par	rkway; Lusby, M (address)	D 20657-	4702	M	IWO No	2199800598 (PO, job no.)			
. Work Perf	ormed by: _Ba	altimore Gas Elect	tric, NEI	O, CCNPPD	A	T uthorization	ype Code Symbol S 1 No: <u>N/A</u> Exp 1	tamp: <u>N/A</u> Date: <u>N/A</u>		
1650 Cal	vert Cliffs Par	kway; Lusby, M	D 20657-	4702	S	ection X	Class: One			
	-	System Number: on Code and Class					r Coolant	•		
		Section XI Utilized tents Repaired or R			<u>1992 F</u>	d., Sum	Summer 83 Ad mer 92 Ad.(TV			
		same reshmited of Ti	wpiawa, a	min inchiaccinci	it Compor	ents:				
Name of	Name of Manufacturer	Manufacturers	National Board No.	Other Identification	t Compor Ye Bu	ar]	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)		
Name of Component	Name of	Manufacturers	National	Other	Ye	ar]	Replaced, or	Code Stamped		
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) 79404793-7 (VB) 80102860-11 (CYL) 74400328-140 (VB)	National Board No.	Other Identification	Ye	ar l	Replaced, or Replacement	Code Stamped (Yes or No)		
Name of Component IYDRAULIC NUBBERS IYDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 79404793-7 (VB) 80102860-11 (CYL) 74400328-140	National Board No.	Other Identification	Ye	ar l silt I N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
,	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 79404793-7 (VB) 80102860-11 (CYL) 74400328-140 (VB)	National Board No.	Other Identification	Ye	ar l silt I N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
Name of Component YDRAULIC NUBBERS YDRAULIC NUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 79404793-7 (VB) 80102860-11 (CYL) 74400328-140 (VB) 9975-B-1-SP	National Board No. N/A N/A	Other Identification 2-64-25 2-64-25	Ye	ar l silt I N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
Name of Component TYDRAULIC NUBBERS TYDRAULIC NUBBERS TYDRAULIC NUBBERS	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 79404793-7 (VB) 80102860-11 (CYL) 74400328-140 (VB)	National Board No. N/A N/A CE ON SN	Other Identification 2-64-25 2-64-25	Ye Bu	ar lik 1	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No No		

of sheets is recorded at the top of this form.

9. Remarks:

ASME

FORM NIS-2, OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Described Devide Descriptions of the ACM	E Codo Costion VI
As Required By the Provisions of the ASMI	E Code Section XI
1. Owner: Baltimore Gas Electric Company (name)	Date: April 10, 1999
G&E Building, P.O. Box 1475, Baltimore, MD, 21203 (address)	Unit: <u>Two</u>
2. Plant: Calvert Cliffs Nuclear Power Plant (name)	R&R No: <u>98-2-205</u>
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address)	MWO No: <u>2199704494</u> (PO, job no.)
3. Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name)	Type Code Symbol Stamp: N/A Authorization No: N/A Exp Date: N/A
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address)	Section XI Class: One
4. Identification of System: System Number: 64 System 1	Name: Reactor Coolant
5. (a) Applicable Construction Code and Class: USAS B31.7 1969 ED. t	hru 1971 ADD.
(b) Applicable Edition of Section XI Utilized for Repairs/Replacements:	1983 Edition, Summer 83 Addenda

6. Identification of Components Repaired or Replaced, and Replacement Components:

Name of Component			National Other Board No. Identification		Year Built	Repaired, Replaced, or Replacement	Code Stamped (Yes or No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-59 (VB) 80102860-10	N/A	2-64-26	N/A	Replaced	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79404793-60 (VB) 79398753-451	N/A	2-64-26	1998	Replacement	No

1.	Description (OI 1	W	ork:
----	---------------	------	---	------

PERFORMED PREVENTIVE MAINTENANCE ON SNUBBER: 2-64-26

8. Tests Conducted:

Hydrostatic:

Pneumatic:

Nominal Operating Pressure:

Pressure: N/A psi.

Test Temperature: N/A Deg.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 10, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-14-99$ to $3-28-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Warrence Commissions: WB 8726 ANT, MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

		As Required By the	PIUVISIO	IIS OF THE ACTAL C					
1. Owner:	Baltin	nore Gas Electric Co	mpany		Dat	e: <u>Apri</u>	<u>1 9, 1999</u>		• • •
G&E Bu	ilding, P.O.	Box 1475, Baltimon	re, MD, 2	1203	Uni	t: <u>Tw</u>	<u>0</u>		
2. Plant:	Calvert	Cliffs Nuclear Power (name)	Plant		R&	R No: 9	<u>8-2-206</u>		
1650 Calve	ert Cliffs Pa	rkway: Lusby, MD (address)	20657-47	702	MV		2199704509 (PO, job no.)		
3. Work Perfo	rmed by: <u>B</u>	altimore Gas Electr	ic, NED,	CCNPPD	Auth	Ty orization	pe Code Symbol Si No: <u>N/A</u> Exp I	tamp: Date: <u>_N</u>	<u>N/A</u> <u>'A</u>
1650 Calve	ert Cliffs Pa	rkway; Lusby, MD (address)	20657-4	702	Sec	tion XI	Class: One		
4. Identification	on of System	: System Number:	<u>64</u>	System Nar	me: <u>I</u>	Reactor	Coolant	•	
5. (a) Applicat	ole Construct	tion Code and Class:	USAS B	31.7 1969 ED. thru	197	ADD.		•	
		f Section XI Utilized		rs/Replacements: 195	83 Ec	lition, S		ldend: VE/IW	<u>l</u> / <u>L)</u>
6. Identification	on of Compo	onents Repaired or Re	eplaced, ar	nd Replacement Con	npone		Repaired,		ASME Code
Name of Component	Name of Manufacturer	Total interest and	lational oard No.	Other Identification	Year Buil		teplaced, or teplacement	Stam (Yes	ped or No)
HYDRAULIC	GRINNELL	(CYL)	N/A	2-64-27		N/A	Replaced		No
SNUBBERS	CORP.	73355668-231 (VB) 9979B-1-SP		ing street in the			in the second se	-	
HYDRAULIC	GRINNELL		N/A	2-64-27		1999	Replacement		No
SNUBBERS	CORP.	73355668-221 (VB) 9980B-1-SP		ja sama sama					
7. Description		TIVE MAINTENANG		UBBER: 2-64-27		****		N.	
8. Tests Cond	lucted:	Hydrostatic:	Pne	umatic:	No	minal (Operating Pres	sure: [3
		Pressure: N/A psi.		Test Temperate	ure:]	N/A De	g.		
information is	n Items 1 thi	neets in form of lists, strongh 6 on this reported top of this form.	sketches, c t is include	or drawings may be t ed on each sheet, and	used, d (3)	provide each she	d: (1) size is 8- ect is numbered	-1/2"x d and t	11", (2) the number

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 9, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-14-99$ to $4-6-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Cobert Lawrence Commissions: NB8226 ANI MA647 Inspector's Signature Commissions: NB8226 ANI MA647 National Board, State, and Endorsements
Date: <u>Opril 30</u> 199 <u>9</u>

<u> </u>		As Required By th	e Provisi	ons of the ASME	Code	Section	n XI		
1. Owner:	Baltimo	ore Gas Electric C	ompany		Da	te: <u>Apr</u>	il 10, 1999		
G&E Building, P.O. Box 1475, Baltimore, MD, 21203					Un	it: <u>Tv</u>	<u>70</u>		
2. Plant:	Calvert C	liffs Nuclear Powe (name)	r Plant		R&	R No:	<u>98-2-207</u>		. Mis
1650 Calv	ert Cliffs Par	kway: Lusby, MD	20657-4	702	M	VO.No:	2199704490 (PO, job no.)		
3. Work Perfo	ormed by: Ba	ltimore Gas Electi		CCNPPD	Aut		ype Code Symbol Sta i No: <u>N/A</u> Exp D		
1650 Calv	ert Cliffs Par	kway; Lusby, MD (address)	20657-4	702	Sec	tion XI	Class: One	•	
4. Identificati	on of System:	System Number:	<u>64</u>	System N	lame:	Reactor	r Coolant		
5. (a) Applical	ble Construction	on Code and Class:	USAS_B	31.7 1969 ED. th	ru 197	1 ADD	2		• .
(b) Applicat	ble Edition of	Section XI Utilized	for Repai	rs/Replacements: 1	1983 E 1992 E	dition, i i., Sum	Summer 83 Ad mer 92 Ad.(TW	denda E/IW	<u>r)</u>
6. Identificati	on of Compon	ents Repaired or Re	eplaced, ai	nd Replacement Co	ompone Yea		Repaired, Replaced, or	Stamp	ASME Code ced
Component	Manufacturer		loard No.	Identification	Bui	t 1	Replacement	(Yes 0	r No)
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-66 (VB) 10165B-1-SP	N/A	2-64-28A		N/A	Replaced		No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402396-176	N/A	2-64-28A		1997	Replacement		No
•		(VB) 8549-1-SP							
į.	<u> </u>		·			,·			
						•			
7. Description					_				
PERFORMEI	PREVENTI	VE MAINTENAN(CE ON SN	IUBBER: 2-64-28/	٩.		•		
8. Tests Cond	iucted: H	iydrostatic: 🔲	Pne	umatic:	No	minal (Operating Press	ure: []
	P	ressure: N/A psi.		Test Tempera	ature: 1	N/A D	eg.		
NOTE: Supp	plemental shee	ets in form of lists, s	sketches, o	or drawings may be	used,	provide	d: (1) size is 8-1	/2"x :	11", (2)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2 × 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 10, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-14-99$ to $1-14-99$ to $1-14-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Daurence Commissions: NBEZZG ANZ MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

Owner: Baltimore Gas Electric Company (name)					T.	Date: March 20, 1999			
G&E Building, P.O. Box 1475, Baltimore, MD, 21203						Unit: <u>Two</u>			
. Plant:	Calvert (Diffs Nuclear Pow (name)	er Plant	eren - Tell yar	R	&R No:	<u>98-2-208</u>		
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address) Work Performed by: Baltimore Gas Electric, NED, CCNPPD (name)						MWO No: 2199800599 (PO, job no.) Type Code Symbol Stamp: N/A Authorization No: N/A Exp Date: N/A			
(a) Applica	ible Constructi	System Number: on Code and Class Section XI Utilized	: USAS I	B31.7 1969 EI). thru 19 ts: <u>1983 F</u>	71 ADD	7 1 1 1		
T1									
Name of	ion of Compor Name of Manufacturer		Replaced, a National Board No.	other Identification	it Compon Ye Bu	ar	Repaired, Replaced, or Replacement	ASMI Code Stamped (Yes or No)	
Name of component	Name of	Manufacturers	National	Other	Ye	ar	Replaced, or	Code	
Name of component YDRAULIC JUBBERS YDRAULIC	Name of Manufacturer GRINNELL	Manufacturers Serial Number I (CYL) 74462697-247 (VB)	National Board No.	Other Identification	Ye	ar ilt	Replaced, or Replacement	Code Stamped (Yes or No)	
•	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 74462697-247 (VB) 10489B-2-A (CYL) 73345359-21 (VB)	National Board No.	Other Identification	Ye	ar ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)	
Name of Component YDRAULIC NUBBERS YDRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	Manufacturers Serial Number (CYL) 74462697-247 (VB) 10489B-2-A (CYL) 73345359-21 (VB)	National Board No.	Other Identification	Ye	ar ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)	
Name of Component YDRAULIC NUBBERS YDRAULIC NUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 74462697-247 (VB) 10489B-2-A (CYL) 73345359-21 (VB)	National Board No. N/A N/A	Other Identification 2-64-30 2-64-30	Ye	ar ilt N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)	
Name of Component YDRAULIC NUBBERS YDRAULIC NUBBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) 74462697-247 (VB) 10489B-2-A (CYL) 73345359-21 (VB) 9924B-2-A	National Board No. N/A N/A N/A	Other Identification 2-64-30 2-64-30	Ye Bu	N/A 1998	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No No	

of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 20, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Warrence Commissions: NBBZZGANI, MD647 Inspector's Signature National Board, State, and Endorsements
Date: <u>Opril 28</u> 199 <u>9</u>

Owner: Baltimore Gas Electric Company (name)						Date: March 20, 1999			
G&E I	Building, P.O.	Box 1475, Baltim	ore, MD,	21203	Unit: <u>T</u>	wo			
Plant:	Calvert C	liffs Nuclear Pow	er Plant	· · · · · · · · · · · · · · · · · · ·	R&R No:	<u>98-2-209</u>			
1650 Cal	vert Cliffs Par	kway: Lusby, M	D 20657-	4702	MWO No	2199800600 (PO, job no.)			
Work Perf	formed by: Ba	altimore Gas Elec (na	tric, NEI	O, CCNPPD	Authorizatio	Type Code Symbol S n No: <u>N/A</u> Exp I	tamp: <u>N/A</u> Date: <u>N/A</u>		
1650 Cal	vert Cliffs Par	kway; Lusby, M (address)	D 20657-	4702	Section X	I Class: One	į tiet		
Identificat	ion of System:	System Number:	<u>64</u>	System 1	Name: Reacto	r Coolant			
(a) Applica	ble Constructi	on Code and Class	: USAS	B31.7 1969 ED. tl	ıru 1971 ADI	<u>)</u>			
(b) Applica	ble Edition of	Section XI Utilize	d for Repa	nirs/Replacements:		Summer 83 Ad mer 92 Ad.(IV			
Identificat	ion of Compor	ents Renaired or R	Replaced a	and Replacement C		inici Jz Au.(14)	I Est IVI Est		
racintinoat.	ion or Compor	che repaired of 1	wpiuou, e	ma replacement e	omponenta.				
Name of	Nome of	Manuscatuman	National	Other	Vaan	Repaired,	ASME Code		
	Name of Manufacturer		National Board No.	Other Identification	Year Built	Repaired, Replaced, or Replacement			
Omponent ORAULIC		(CYL) 75503198-94 (VB)		·		Replaced, or	Code Stamped		
Name of omponent /DRAULIC IUBBERS	Manufacturer GRINNELL CORP.	(CYL) 75503198-94 (VB) 80511048-15	Board No.	Identification 2-64-30A	Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
OMPONENT OMPONE	Manufacturer GRINNELL	(CYL) 75503198-94 (VB)	Board No.	Identification	Built	Replaced, or Replacement	Code Stamped (Yes or No)		
omponent ORAULIC	GRINNELL CORP. GRINNELL	(CYL) 75503198-94 (VB) 80511048-15 (CYL) 75593196-92 (VB) B2556-A2-	Board No.	Identification 2-64-30A	Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
OMPONENT OMPONE	GRINNELL CORP. GRINNELL	(CYL) 75503198-94 (VB) 80511048-15 (CYL) 75593196-92 (VB) B2556-A2-	Board No.	Identification 2-64-30A	Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
Omponent ODRAULIC TUBBERS ODRAULIC TUBBERS Description	GRINNELL CORP. GRINNELL CORP.	(CYL) 75503198-94 (VB) 80511048-15 (CYL) 75593196-92 (VB) B2556-A2- D71C	N/A N/A	Identification 2-64-30A 2-64-30A	N/A 1996	Replaced, or Replacement Replaced	Code Stamped (Yes or No)		
Omponent VDRAULIC IUBBERS VDRAULIC IUBBERS Description	GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	(CYL) 75503198-94 (VB) 80511048-15 (CYL) 75593196-92 (VB) B2556-A2- D71C	N/A N/A CE ON SI	Identification 2-64-30A	Built N/A 1996	Replaced, or Replacement Replaced	Code Stamped (Yes or No) No		

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

9. Remarks:

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: March 20, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-14-99 to 3-30-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NB 7525 IBNA MD 765 Inspector's Signature Commissions: NB 7525 IBNA MD 765 National Board, State, and Endorsements
Date: <u>APRIL 14</u> 199 9

		As Required By t	he Provis	ions of the ASME C	ode Section	on XI	· · · · · · · · · · · · · · · · · · ·
1. Owner: _	Baltin	nore Gas Electric (name)	वाहर । .	Date: mARCH 29, 1999			
G&E F	Building, P.O.	. Box 1475, Baltim	21203	Unit: tV	<u>vo</u>		
		(address)				19.1 1 1	
2. Plant:	Calvert (Cliffs Nuclear Pow (name)	er Plant		R&R No:	<u>98-2-210</u>	·
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657-	1702	MWO No	: <u>2199704518</u> (PO, job no.)	
. Work Perf	formed by: B	altimore Gas Elect	ric, NED	, CCNPPD		ype Code Symbol St n No: <u>N/A</u> Exp D	
1650 Cal	vert Cliffs Pa	rkway: Lusby, M (address)	D 20657-4	1702	Section X	I Class: oNE	
l. Identificati	ion of System	: System Number:	<u>64</u>	System Nam	e: <u>Reacto</u>	r Cooling	
i. (a) Applica	ble Construct	ion Code and Class	USAS I	331.7 1969 ED. thru	1971 ADD	<u>.</u>	•
(b) Applica	ible Edition of	Section XI Utilized	for Repa	irs/Replacements: 198	3 Edition,	- Summer 83 Ad	denda
				-		mer 92 Ad.(IW	
Name of Component	Name of Manufacturer	Manufacturers	National Board No.	nd Replacement Comp Other Identification	Year	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
TYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 74402397-203 (VB) 10446B-2-A	N/A	2-64-38	N/A	Replaced	No
TYDRAULIC	GRINNELL	(CYL)	N/A	2-64-38	1998	Replacement	No
SNUBBERS	CORP.	73326236-76 (VB) 9389-B-1-SP	e strik				
:			1				
:			1			•••	
	<u> </u>		<u> </u>	and the second second		<u> </u>	
. Description	n of Work:						
-		VE MAINTENAN	TE ON CN	TIDDED: 2.64.29			
EKI-OKWEL) FKE VENII	ve maintenam	CE ON SIV	10DDER. 2-04-36			
. Tests Cond	lucted: F	Iydrostatic:	Pne	umatic:	Nominal C	Operating Pressu	ıre: 🗍
		Pressure: N/A psi.		Test Temperature		-	~~ ~ • • • • • • • • • • • • • • • • •
	F	ressure. IVA psi.		rest remperature	. NA DE	₹.	
OTE: C	lemental chec	ets in form of lists	ketches o	r drawings may be use	d provide	d· (1) size is 8-1	/2"v 11" (2)

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided: (1) size is 8-1/2"x 11", (2) information in Items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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9. Remarks: This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Owner or Owner's Designee, Title Date: March 29, 1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period /-/4/-99 to 3-29-99, and state to the best of my knowledge and belief the Owner has no formed by the period /-/4/-99.
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Commissions: NB 7525 IBNA MO 765 Inspector's Signature National Board, State, and Endorsements
Date: APRIL 15 1999

		As Required By	the Provis	ions of the ASME	Code Sect	on XI			
1. Owner:	Baltim	ore Gas Electric (name)	Company		Date: A	pril 10, 1999			
G&E B	uilding, P.O.	Box 1475, Baltin	more, MD,	21203	Unit:]	wo			
(address) 2. Plant: Calvert Cliffs Nuclear Power Plant (name)					R&R No	: <u>98-2-211</u>			
1650 Calvert Cliffs Parkway; Lusby, MD 20657-4702 (address)					MWON	MWO No: <u>2199704513</u> (PO, job no.)			
3. Work Perfe	ormed by: Ba	ltimore Gas Ele	ctric, NED	, CCNPPD		Type Code Symbol S on No: <u>N/A</u> Exp l			
1650 Calv	ert Cliffs Par	kway; Lusby, N (address)	MD 20657-	4702	Section 2	KI Class: Two	•		
4. Identificati	on of System:	System Number	r: <u>83</u>	System N	Name: Main	<u>Steam</u>			
5. (a) Applica	ble Constructi	on Code and Clas	ss: <u>USAS 1</u>	B31.1 1967 ED. tl	iru 1972 AD	<u>D.</u>			
(b) Applica	ble Edition of	Section XI Utiliz	ed for Repa	irs/Replacements:	1983 Edition 1992 Ed., Su	, Summer 83 Ac mmer 92 Ad.(N	ddenda VE/IWL)		
6. Identificati	on of Compon	nents Repaired or	Replaced, a	and Replacement C	omponents:	Repaired, Replaced, or	ASME Code Stamped		
Component	Manufacturer	Serial Number	Board No.	Identification	Built	Replacement	(Yes or No)		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 88101085-5 (VB) 8912442-3	N/A	2-83-34	N/A	Replaced	No		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 86340253-7	N/A	2-83-34	1999	Replacement	No		
		(VB) 2282-A2							
					-				
· · · · · · · · · · · · · · · · · · ·						# 1 m 1 m			
7. Description	n of Work:								
PERFORME	PREVENTI'	VE MAINTENA	NCE ON SI	NUBBER: 2-83-34					
8. Tests Cond	fucted: H	Iydrostatic:	Pno	eumatic:	Nomina	Operating Pres	sure:		
	P	ressure: N/A ps	i.	Test Tempera	ature: N/A I	Deg.			
NOTE: Supp	plemental shee	ets in form of lists	s, sketches,	or drawings may be	e used, provid	led: (1) size is 8-	1/2"x 11", (2)		

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Expiration Date: N/A
Signed: Senior Engineer Date: April 10, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-14-99 to 4-10-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Devrence Commissions: NB 8226 ANI MD 647 Inspector's Signature National Board, State, and Endorsements
Date:

1. Owner: _	Baltimor	e Gas Electric C	Company			Date: <u>Anı</u>	ril 28, 1999		
G&E B	Building, P.O. B	ox 1475, Baltimo (address)	ore, MD,	21203	***	Unit: <u>T</u> v	<u>YO</u>		, 1999
2. Plant:	Calvert Clif	is Nuclear Powe (name)	er Plant		•	R&R No:	<u>98-2-212</u>		, to to gw Epi
1650 Calv	vert Cliffs Park	vay: Lusby, MI (address)	20657-4	4702	Aj s	MWO No:	2199704519 (PO, job no.)	- 4	
3. Work Perfe	ormed by: Balti	more Gas Election		, CCNPPD			ype Code Symbol S 1 No: <u>N/A</u> Exp 1		
1650 Calv	vert Cliffs Parky	vay: Lusby, MI (address)	20657-4	4702		Section XI	Class: One		
4. Identificati	ion of System: S	System Number:	<u>64</u>	S	ystem Name	: Reactor	- Coolant		
5. (a) Applica	ble Construction	Code and Class:	USAS E	B 31.7 19 69	EDD. thru	1971 AD	<u>D.</u>	. •	
(b) Applica	ble Edition of Se	ction XI Utilized	for Repai	irs/Replace			Summer 83 Ad mer 92 Ad.(IV		-
									1.41
6. Identificati	ion of Componer	ts Renaired or Re	entaced a	nd Réplace			>2 114.(17		. 19 19 44 . <mark>Tri</mark>
6. Identificati Name of Component		Manufacturers 1	eplaced, a	nd Replace Other Identificati	ment Comp	onents:	Repaired, Replaced, or	Stam	ASME Code
Name of Component	Name of Manufacturer S	Manufacturers I Berial Number E	Vational Joard No.	Other Identificati	ment Comp	onents: Year l Built F	Repaired, Replaced, or Replacement		ASME Code
Name of	Name of N	Manufacturers 1	Vational	Other	ment Comp	onents:	Repaired, Replaced, or	Stam	ASME Code
Name of Component	Name of Manufacturer S	Aanufacturers Rerial Number B	Vational Joard No.	Other Identificati	ment Comp	onents: Year l Built F	Repaired, Replaced, or Replacement	Stam	ASME Code ped or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer S GRINNELL CORP. GRINNELL	Manufacturers Properties of the Country of the Coun	National loard No.	Other Identificati	ment Comp	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer S GRINNELL CORP. GRINNELL	(CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB)	National loard No.	Other Identificati	ment Comp	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer S GRINNELL CORP. GRINNELL	(CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB)	National loard No.	Other Identificati	ment Comp	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC	Name of Manufacturer S GRINNELL CORP. GRINNELL	(CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB)	National loard No. N/A	Other Identificati	on Comp	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS	Name of Manufacturer S GRINNELL CORP. GRINNELL CORP.	(CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB)	National loard No. N/A	Other Identificati 2-64-43	on Comp	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS 7. Description	Name of Manufacturer S GRINNELL CORP. GRINNELL CORP.	Manufacturers Prerial Number B (CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB) 77244537-112	National loard No. N/A N/A	Other Identificati 2-64-43 2-64-43	on	onents: (ear leault le	Repaired, Replaced, or Replacement Replaced	Stam	ASME Code oed or No)
Name of Component HYDRAULIC SNUBBERS HYDRAULIC SNUBBERS 7. Description	Name of Manufacturer S GRINNELL CORP. GRINNELL CORP.	Manufacturers Prerial Number B (CYL) 87392610 (VB) KY024D58-A4 (CYL) 78309511-1 (VB) 77244537-112	National loard No. N/A N/A N/A	Other Identificati 2-64-43 2-64-43	on 64-43	onents: Year I Built I N/A 1999	Repaired, Replaced, or Replacement Replaced	Stam (Yes c	ASME Code ped r No)

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Dan Hoang Senior Engineer Owner or Owner's Designee, Title Date: April 28, 1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the
components described in this Owner's Report during the period $1-14-99$ to $14-27-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Robert Owner Commissions: NB8226 ANI MD 647 Inspector's Signature National Board, State, and Endorsements
Date: May 11, 1999

	-	As Required By	the Provis	ions of the ASME	Code Sectio	n XI	·	
1. Owner: _	Baltin	nore Gas Electric	Company		Date: Api	il 10, 1999	•	
G&E E	Building, P.O	. Box 1475, Baltin (address)	nore, MD,	21203	Unit: <u>Two</u>			
2. Plant:	Calvert	Cliffs Nuclear Pow	ver Plant		R&R No:	<u>98-2-213</u>		
1650 Calv	vert Cliss Pa	rkway; Lusby, M	D 20657-	4702	MWO No:	2199704517 (PO, job po.)		
3. Work Perf	ormed by: _B	altimore Gas Elec	etric, NED	, CCNPPD		ype Code Symbol Stam No: <u>N/A</u> Exp Date		
1650 Calv	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657-	<u>4702</u>	Section XI	Class: Two	i i i i i i i i i i i i i i i i i i i	
4. Identificati	ion of System	: System Number:	: <u>83</u>	System N	lame: Main S	team .		
5. (a) Applica	ble Construct	tion Code and Class	s: <u>USAS J</u>	B31.1 1967 ED. th	ru 1972 ADD.	1		
(b) Applica	ble Edition o	f Section XI Utilize	d for Repa			Summer 83 Adde mer 92 Ad.(IWE		
6. Identificati Name of Component	ion of Compo Name of Manufacturer	ments Repaired or I Manufacturers Serial Number	Replaced, a National Board No.	other Identification	Year 1		ASME Code tamped ('es or No)	
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 88101085-10 (VB) 8912442-29	N/A	2-83-33	N/A	Replaced	No	
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 81134402-10 (VB) 54670-012- ZB127	N/A	2-83-33	1999	Replacement	No	
<u> </u>	<u> </u>		. 1			1		
7. Description PERFORMEL		IVE MAINTENAN	ICE ON SI	NUBBER: 2-83-33		·	·	
8. Tests Cond		Hydrostatic: Pressure: N/A psi.		cumatic: Test Tempera	Nominal C	Operating Pressure g.	:: -	
MOTE: Sum	alamantol cha	ate in form of lists	ekatehas 4	or drawings may be	uced provide	l: (1) size is 8-1 <i>0</i> 1	"v 11" <i>(</i> 2)	

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

1. Owner:	Baltime	ore Gas Electric (name)	<u>Company</u>		Date: Ap	<u>ril 16, 1999</u>	
G&E F	Building, P.O.	Box 1475, Baltim (address)	ore, MD,	21203	Unit: T	<u>wo</u>	
2. Plant:	Calvert C	liffs Nuclear Powe	er Plant		R&R No:	<u>98-2-214</u>	e de la companya de La companya de la co
1650 Calv	vert Cliffs Par	kway; Lusby, Mi (address)	D 20657-	4702	MWO No	(PO, job no.)	. · * * · .
B. Work Perf	formed by: <u>Ba</u>	ltimore Gas Elect	tric, NEI	D, CCNPPD		ype Code Symbol St n No: <u>N/A</u> Exp I	
1650 Calv	vert Cliffs Par	kway; Lusby, Mi (address)	D 20657-	4702	Section X	I Class: Two	
. Identificati	ion of System:	System Number:	<u>83</u>	System Na	me: <u>Main S</u>	<u>team</u>	
. (a) Applica	ble Construction	on Code and Class:	USAS	B31.1 1967 ED. thr	u 1972 ADD	<u>.</u>	•
(b) Applica	ble Edition of	Section XI Utilized	i for Repa	nirs/Replacements: 15 19	****	Summer 83 Ad mer 92 Ad.(TV	
. Identificati	ion of Compon	ents Repaired or R	eplaced, a	and Replacement Cor	mponents:		
					•••	Repaired,	ASME Code
Name of Component	Name of Manufacturer	•	National Board No.	Other Identification		Repaired, Replaced, or Replacement	,
Component	Manufacturer	•	•			Replaced, or	Code Stamped
Component HYDRAULIC ENUBBERS HYDRAULIC	Manufacturer GRINNELL	(CYL) 86350052-14 (V)	Board No.	Identification	Buik	Replaced, or Replacement	Code Stamped (Yes or No)
Name of Component HYDRAULIC ENUBBERS HYDRAULIC ENUBBERS	Manufacturer GRINNELL CORP. GRINNELL	(CYL) 86350052-14 (V) 86342149-100 (CYL) 79404806-30 (VB)	N/A	Identification 2-83-16A	Built N/A	Replaced, or Replacement Replaced	Code Stamped (Yes or No)
Component HYDRAULIC ENUBBERS HYDRAULIC ENUBBERS Description PERFORMED	GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	(CYL) 86350052-14 (V) 86342149-100 (CYL) 79404806-30 (VB) B2264-A2	N/A N/A N/A CE ON SP	2-83-16A 2-84-16A NUBBER: 2-83-16A	N/A 1999	Replaced, or Replacement Replaced Replaced	Code Stamped (Yes or No) No
Component HYDRAULIC ENUBBERS HYDRAULIC NUBBERS Description	GRINNELL CORP. GRINNELL CORP. GRINNELL CORP.	(CYL) 86350052-14 (V) 86342149-100 (CYL) 79404806-30 (VB) B2264-A2	N/A N/A N/A CE ON SP	2-83-16A 2-84-16A	Nominal C	Replaced, or Replacement Replaced Replaced Replacement	Code Stamped (Yes or No) No

of sheets is recorded at the top of this form.

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A
Signed: Dan Hoang Senior Engineer Date: April 16, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-14-79 to 4-12-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied,
concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Dawrence Commissions: <u>NB8226ANI MD647</u> Inspector's Signature Commissions: <u>NB8226ANI MD647</u> National Board, State, and Endorsements
Date:

		As Required By	ine Provi	sions of the AS	ME COO	e Secti	on XI	
1. Owner: _	Baltin	nore Gas Electric (name)	<u>Company</u>	, ,	ľ	Date: A	oril 14, 1999	
G&E	Building, P.O	. Box 1475, Baltim (address)	ore, MD,	21203	τ	Init: <u>1</u>	<u>wo</u>	
2. Plant:	Calvert (Cliffs Nuclear Pow (name)	er Plant		R	&R No:	<u>98-2-215</u>	
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657-	4702	M	WO No	2199800602 (PO, job no.)	
3. Work Peri	formed by: B	altimore Gas Elect	tric, NEI	O, CCNPPD	As	tuthorizatio	Type Code Symbol Stamp: in No: <u>N/A</u> Exp Date:	N/A
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	D 20657-	4702	S	ection X	I Class: Two	
4. Identificat	ion of System:	System Number:	<u>83</u>	System	n Name:	Main S	Steam .	
5. (a) Applica	ible Constructi	on Code and Class	USAS	B31.7 1969 ED.	thru 19	71 ADD		
(b) Applica	able Edition of	Section XI Utilized	i for Repa	irs/Replacement			Summer 83 Adden mer 92 Ad.(TWE/I	
6. Identificat	ion of Compor	nents Repaired or R	eplaced, a	and Replacement			mici >2 Au.(IVE/I	<u>WL)</u>
Name of Component	Name of Manufacturer		National Board No.	Other Identification	Ye Bu			ASME Code mped s or No)
HYDRAULIC	GRINNELL	(CYL)	N/A	2-83-2A		N/A	Replaced	No
SNUBBERS	CORP.	78318146-7 (VB) 79371872-263					replace	No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 79437626-7	N/A	2-83-2A		1998	Replacement	No
		(VB) 79398754-176						
				l				
7. Description	of Work:			•				
PERFORMED	PREVENTIV	E MAINTENANC	E ON SN	UBBER: 2-83-2.	A			
8. Tests Cond	ucted: H	ydrostatic:	Pnet	amatic:	No	minal C	perating Pressure: [
	Pr	ressure: N/A psi.		Test Tempe	rature: 1	V/A De	g .	
NOTE: Supplinformation in of sheets is rec	items I through	gh 6 on this report :	cetches, or is included	r drawings may t d on each sheet, :	oe used, p and (3) e	provided ach she	: (1) size is 8-1/2"x et is numbered and t	11", (2) he number

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1.	TACIN	aı.	ΝЭ.

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached						
Certificate of Compliance						
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.						
Type Code Symbol Stamp: N/A Expiration Date: N/A						
Signed: Dan Hoang Senior Engineer Date: April 14, 1999 Owner or Owner's Designee, Title						
Certificate of Inservice Inspection						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the						
components described in this Owner's Report during the period $1-14-99$ to $4-13-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.						
Lobert & Lawrence Comnssions: NB8226ANI MD647 Inspector's Signature National Board, State, and Endorsements						
Date: <u>April 29</u> 1999						

		As Required By th	e Provis	ions of the ASI	ME Code	Section	n XI		21
1. Owner:	Baltime	ore Gas Electric C	Company		Da	ate: <u>Ap</u>	ril 12, 1999		
G&E B	building, P.O.	Box 1475, Baltime	ore, MD,	21203	Uı	nit: <u>Tv</u>	<u>vo</u>		
2. Plant:	Calvert C	liffs Nuclear Powe (name)	er Plant	·	R	&R No:	<u>98-2-216</u>		
1650 Calv	ert Cliffs Par	kway; Lusby, MI (address)	20657-4	1702	M	WO No	2199800603 (PO, job no.)		· · · •
3. Work Perfe	ormed by: Ba	ltimore Gas Elect		, CCNPPD	Au		ype Code Symbol St 1 No: <u>N/A</u> Exp D		<u>N/A</u>
1650 Calv	ert Cliffs Par	kway; Lusby, MI (address)	20657-	1702	Se	ction X	Class: Two		
4. Identificati	on of System:	System Number:	<u>83</u>	Systen	n Name:	Main S	<u>team</u>		
5. (a) Applical	ble Construction	on Code and Class:	USAS I	31.7 1969 ED.	thru 19'	71 ADD	<u>1</u>		
(b) Applica	ble Edition of	Section XI Utilized	for Repai	irs/Replacement	s: <u>1983 E</u> <u>1992 E</u>	dition, d., Sum	Summer 83 Ad mer 92 Ad.(TW	denda Æ/IW	<u>L)</u>
6. Identificati Name of Component	on of Compon Name of Manufacturer		eplaced, a National Board No.	nd Replacement Other Identification	Compon Yea Bu	ar	Repaired, Replaced, or Replacement		
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 78318146-9 (VB) V5128-2	N/A	2-83-3		N/A	Replaced		No
HYDRAULIC SNUBBERS	GRINNELL CORP.	(CYL) 81134402-1 (VB) 79398754-333	N/A	2-83-3		1994	Replacement		No
·	<u> </u>		<u> </u>		<u> </u>				· · ·
7. Description		VE MAINTENANC	CE ON SN	TUBBER: 2-83-3	 }				•
8. Tests Cond	lucted: H	lydrostatic:	Pne	rumatic:	N	ominal (Operating Press	ure: [)
	P	ressure: N/A psi.		Test Temp	erature:	N/A De	g.		
NOTE: Supp		ts in form of lists, s							

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached
Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A Dan Hoang Senior Engineer Date: April 12, 1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period
Robert W Lawrence Commissions: NB8226 ANI MD 647 Inspector's Signature National Board, State, and Endorsements Date: Ophil 2.8 1008

Owner: _	Balti	more Gas Electric (name)	: Company	<u>r</u>		Date: A	oril 16, 1999		
G&E	Building, P.C). Box 1475, Baltin (address)	more, MD.	<u>21203</u>		Jnit: <u>T</u>	<u>wo</u>		
Plant:	Calvert	Cliffs Nuclear Pov (name)	wer Plant		R	&R No:	<u>98-2-217</u>		•
1650 Cal	vert Cliffs Pa	arkway; Lusby, N (address)	AD 20657-	-4702	M	IWO No	2199800606 (PO, job no.)	<u> </u>	
Work Peri	formed by: <u>I</u>	Baltimore Gas Elec	ctric, NEI	D, CCNPPD	A	T uthorizatio	Type Code Symbol on No: <u>N/A</u> Exp	Stamp: Date:	N/A
1650 Cal	vert Cliffs Pa	rkway; Lusby, N (address)	1D 20657-	-4702	S	ection X	I Class: Two		
Identificat	ion of System	: System Number	: <u>83</u>	Syster	n Name:	Main S	Steam		
a) Applica	ible Construc	tion Code and Clas	s: <u>USAS</u>	B31.7 1969 ED	. thru 19	71 ADD	<u>).</u>		
) Applica	ible Edition o	f Section XI Utilize	ed for Repa	airs/Replacement	s: <u>1983 I</u> 1992 E	Edition,	Summer 83 A imer 92 Ad.(T	ddend WE/IV	<u>a</u> VL)
dentificat	ion of Compo	nents Repaired or 1	Rèplaced, a	and Replacement			MICI 72 AU.(1	***	
ame of	Name of Manufacturer	ments Repaired or l Manufacturers Serial Number	Replaced, a National Board No.	and Replacement Other Identification		ents:	Repaired, Replaced, or Replacement	Stan	ASME Code
lame of mponent DRAULIC JBBERS	Name of	Manufacturers Serial Number (CYL) C-90-11-01 (V) V-90-11-	National Board No.	Other	Compor	ents:	Repaired, Replaced, or	Stan	ASME Code
ame of imponent DRAULIC IBBERS	Name of Manufacturer GRINNELL	Manufacturers Serial Number (CYL) C-90-11-01	National Board No.	Other Identification	Compor	ents: ar iit	Repaired, Replaced, or Replacement	Stan	ASME Code sped or No)
ame of mponent DRAULIC JBBERS DRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL	(CYL) C-90-11-01 (V) V-90-11- 01-13 (CYL) (CYL) 86340253-1 (VB)	National Board No.	Other Identification	Compor	ar ilt N/A	Repaired, Replaced, or Replacement Replaced	Stan	ASME Code sped or No)
eme of apponent DRAULIC BBERS DRAULIC BBERS Description	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	(CYL) C-90-11-01 (V) V-90-11- 01-13 (CYL) (CYL) 86340253-1 (VB)	National Board No. N/A N/A	Other Identification 2-83-4 2-84-4	Ye Bu	ar ilt N/A	Repaired, Replaced, or Replacement Replaced	Stan	ASME Code sped or No)
DRAULIC	Name of Manufacturer GRINNELL CORP. GRINNELL CORP.	Manufacturers Serial Number (CYL) C-90-11-01 (V) V-90-11- 01-13	National Board No. N/A N/A CE ON SN	Other Identification 2-83-4 2-84-4	Ye Bu	nents: ar ilt N/A 1999	Repaired, Replaced, or Replacement Replaced	Stam (Yes	ASME Code uped or No) No

9. Remarks:

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached					
Certificate of Compliance					
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: N/A Certificate of Authorization No: N/A Expiration Date: N/A					
Dan Hoang					
Cianal.					
Signed: Senior Engineer Date: April 16, 1999 Owner or Owner's Designee, Title					
Certificate of Inservice Inspection					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the					
components described in this Owner's Report during the period $1-14-99$ to $14-12-99$, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.					
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.					
Commissions: NBBZZG ANI MD 647 Inspector's Signature Commissions: National Board, State, and Endorsements					
Date:					

1.0		As Required By						
1. Owner: _	Baltii	nore Gas Electric (name)	Company	<u>.</u>	I	Date: M	arch 19,1999	
G&E 1	Building, P.O	. Box 1475, Baltin (address)	nore, MD.	21203	τ	Jnit: <u>]</u>	<u>wo</u>	
2. Plant:	Calvert	Cliffs Nuclear Pov (name)	ver Plant		F	&R No	: <u>98-2-218</u>	
1650 Cal	vert Cliffs Pa	rkway; Lusby, M (address)	ID 20657-	<u> 4702 </u>	V	AWO N	2199800604 (PO, job no.)	
3. Work Perf	formed by: <u>B</u>	altimore Gas Elec	ctric, NEI	D, CCNPPD	A	uthorizati	Type Code Symbol Sta on No: <u>N/A</u> Exp Da	mp: <u>N/A</u> te: <u>N/A</u>
1650 Cal	vert Cliffs Pa	rkway: Lusby, M (address)	ID 20657-	4702	S	ection 3	I Class: Two	*
. Identificat	ion of System	: System Number	: <u>83</u>	Syster	n Name:	Main :	Steam .	
. (a) Applica	ible Construct	ion Code and Clas	s: <u>USAS</u>	B31.1 1967 ED	thru 19	72 ADI	<u>).</u>	•
(b) Applica	ible Edition o	Section XI Utilize	ed for Repa	nirs/Replacement			Summer 83 Add mer 92 Ad.(TWI	
. Identificati	ion of Compo	nents Repaired or I	Replaced, a	and Replacement				
Name of		•				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Repaired,	ASME Code
Component	Name of Manufacturer	Manufacturers Serial Number	National Board No.	Other Identification		ar iilt		Stamped Yes or No)
YDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 75503196	N/A	2-83-15		N/A	Replaced	No
	t e e e e e e e e e e e e e e e e e e e	(VB) 80511048-1						
YDRAULIC NUBBERS	GRINNELL CORP.	(CYL) 91219611-35 (VB)	N/A	2-83-15		1995	Replacement	No
		16345-91	*		, .			
			<u> </u>					
	<u>.</u>							
Description	of Work:			• •				
•		VE MAINTENAN	CE ON SN	IUBBER: 2-83-1	5			
Tests Cond	ucted: H	ydrostatic:	Pne	umatic:	No	ominal (Operating Pressure	:: 🔲
	P	ressure: N/A psi.		Test Tempe	rature:]	N/A De	g.	
formation in	Items I throu	ts in form of lists, and the second s	sketches, o	r drawings may l d on each sheet,	be used, pand (3) c	provided ach she	f: (1) size is 8-1/2 et is numbered an	"x 11", (2) d the num

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ч	Kemar	ĸs	•

This plan implements Generic Replacement Plan G2, Rev. 1.

Applicable Manufacturer's Data Reports to be Attached						
Certificate of Compliance						
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of the ASME Code, Section XI.						
Type Code Symbol Stamp: N/A Expiration Date: N/A						
Signed: Dan Hoang Senior Engineer Date: March 19, 1999 Owner or Owner's Designee, Title						
Certificate of Inservice Inspection						
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA have inspected the components described in this Owner's Report during the period 1-14-99 to 3-19-99, and state to the						
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any personal injury or property damage of a loss of any kind arising from or connected with this inspection.						
Commissions: NB 7525 IBNA MD 765 Inspector's Signature Commissions: NB 7525 IBNA MD 765 National Board, State, and Endorsements						
Date: APRIL 15 1999						

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric Co	mpany		Date:06/0	8/199	9	
G&E Bulldir	ng, P.O. Box 14		Maryland	, 21203	Sheet 1 of 2			
		(address)	S 400				•	Contract to the second
2. Plant:	Calvert C	liffs Nuclear Po	ower Plan		Unit: Tw	0	e e e e e e e e e e e e e e e e e e e	
	·	(name)						
1650 Calver	t Cliffs Parkwa		yland., 20	0657-4702	R&R No. 9			2199802432
:		(address)	•				P.O. no., job no., etc	•)
3. Work Perfor	rmed by: Baltin	nore Gas Elect	ric, NED		Type Code Sy Authorization		• —	:
	•	(name)			Exp Date: N	•	<u>N/A</u>	
CCNPP Den	ot, 1650 Calveri	Cliffs Parkway	. Lusby.	MD 20657	Section XI Cl		Two .	:
	,	(address)						
4. Identification	on of System: Sys	tem Number <u>06</u>	1 System	n Name: Co	ntainment S	pray	-	
· · ·	le Sect XI Ed. for For of Components I Name of Manufacturer	Repairs/Replacemer		Ed summer cement Compor	83 Ad; 92 Equation nents: Other ification	d sum Year Built	mer 92 Ad for Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Velan Engineering Co.	0358	N/A	No. 21 Containn Header Contain Valve	nent Spray ment Side Check	1977	Repaired	No
					• • • • • • • • • • • • • • • • • • •			
7. Description		•					•	
Perform mad	chining as neces	ssary on 2CKVS	1-330 valv	e disc per ES	SP # ES1999	00426	-000.	
8. Tests Condu	icted: Hydrosi Pressure	8948	Pneumatic Tes	:: N	Nominal Operati <u>N/A</u> Deg	_	sure:	

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. Performed a Construction Code surface examination of all machined surfaces prior to installation of the disc.

We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 06/08/1999 Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid mmission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 4-3-99 to 5-6-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examination and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his
employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Laurence Commissions: NB8Z26ANI MD647 Inspector's Signature National Board, State, and Endorsements
Date: 1999

As Required Required by the Provisions of the ASME Code Section XI

Baltimore Gas Electric Company	Date: _05/25/1999_
1. Owner:	
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203	Sheet 1 of 2
(address)	
2. Plant: Calvert Cliffs Nuclear Power Plant	Unit: Two
(name)	
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702	R&R No. 98-2-253b, MWO No. 219980243
(address)	(P.O. no., job no., etc.)
3 Work Performed by Baltimore Gas Electric, NED	Type Code Symbol Stamp: N/A
3. Work Performed by: Bailiniore Gas Electric, NED (name)	Authorization No.: <u>N/A</u>
Delegan Luchy ND 20657	Exp Date: N/A
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657	Section XI Class: Two
(address) 4. Identification of System: System Number 061 System Name: Co	ntainment Spray
4. Identification of System: System Number 061 System Name: Co	
5. (a) Applicable Construction Code and Class: ASME Draft Code for Pu	umps & Valves, 1968 Edition, March 1970
Add; Class Two	
(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer	83 Ad; 92 Ed summer 92 Ad for IWE/IWL
6 Identification of Components Repaired or Replaced and Replacement Components	nents:
Identification of Components Repaired of Replaced and Replacement Components	Repaired, Code
Name of Name of Manufacturers National C	Other Year Replaced, or Stamped
IAMING OI TAMING OI TAMING TAMING - 1 - 1 - 1 - 1 - 1 - 1 - 1	ification Built Replacement (Yes or No)
Valve Velan Engineering vlv: 0379, disc: 6310 N/A No. 22 Contains	ment Spray 1977 Repaired No
Co. Header Contain	ment Side Check
Valve	
T. Description of Western Control of the Control of	
7. Description of Work: Perform machining as necessary on 2CKVSI-340 valve disc per ES	SP # ES199900426-000.
Perform machining as necessary on portrol of turns are per an	**************************************
8. Tests Conducted: Hydrostatic: Pneumatic: 1	Nominal Operating Pressure:
Pressure: <u>N/A</u> psi. Test Temperature:	: <u>N/A</u> Deg. F
·	
NOTE: Supplemental sheets in form of lists, sketches, or drawings may l	be used, provided (1) size is 8-1/2 in. x 11 in.,
(2) information in Items 1 through 6 on this report is included on each she	eet, and (3) each sneet is numbered and the
number of sheets is recorded at the top of this form.	

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity. A Construction Code surface examination of all valve disc machined surfaces was performed prior to installation of the disc.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI.	epair conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A	
Signed: A.R. Zimmerm: Welding Engine Owner's Designee, Title	
Certificate of Inservice Inspection	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, M.	
components described in this Owner's Report during the period	, and state to the stive measures described in this at, expressed or implied, concerning neither the Inspector nor his
Date: June 14, 1999 Commissions: National Board	LID 647 State, and Endorsements

As Required Required by the Provisions of the ASME Code Section XI

•	
1. Owner: Baltimore Gas Electric Company	Date: 07/12/1999
(name)	
G&E Building, P.O. Box 1475, Baltimore, Maryland, 212	03 Sheet 1 of 2
(address)	and the second s
2. Plant: Calvert Cliffs Nuclear Power Plant	Unit: Two
(name)	
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4	702 R&R No. 98-2-254a, MWO No. 219970092
(address)	(P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED	Type Code Symbol Stamp: N/A
3. Work Performed by: Baltimore Gas Electric, NED (name)	Authorization No.: N/A
	Exp Date: N/A
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20	657 Section XI Class: One
(address)	
4. Identification of System: System Number 064 System Name:	Reactor Coolant System
5. (a) Applicable Construction Code and Class: ASME B&PV Code	Sect. III, 1983 Edition, Summer 1983 Add; Class
One	
(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed sur	nmer 83 Ad; 92 Ed summer 92 Ad for IWE/IWL
Identification of Components Repaired or Replaced and Replacement C	Components:
	Repaired, Code
Name of Manufacturers National	Other Year Replaced, or Stamped
Componet Manufacturer Serial Number Board No.	Identification Built Replacement (Yes or No)
RCP Seal Sulzer Bingham 1C863 NB 1249 # 21B Re- Inc. Mechani	eactor Coolant Pump 1988 Replaced Yes
reduitd will be field 875B-3V	rtridge Assembly (RCP) Replacement Yes Complete Sulzer a per FCR 87-0074
7. Description of Work:	
•	an a saar a <u>s</u> aa ka gaalaha
Replace mechanical seal on #21B Reactor Coolant Pump, as was rebuilt under MO # 0199701836. No pressure retaining p	necessary. The replacement seal ID #(1C865) earts were replaced.
3. Tests Conducted: Hydrostatic: Pneumatic:	Nominal Operating Pressure:
Pressure: 2300 psi. Test Temper	

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report.

Certificate of Compliance We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Owner or Owner's Designee, Title Date: 07/12/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period //-5-98 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Warrence Commissions: NBBZZ6 AWI, MD647 Inspector's Signature Date: July 12, 1999

As Required Required by the Provisions of the ASME Code Section XI

	'Baltimana	Oss Flankia C	\			4.6400	.	
1. Owner:	Baltimore	Gas Electric C	ompany	<u> </u>	Date:	14/199	9	
G&E Build	ing, P.O. Box 1		e, Maryland	1, 21203	Sheet 1 of 2	,		
2. Plant:	Calvert (Cliffs Nuclear F	Power Plan	<u>t</u>	Unit:	NO		
1650 Calva	rt Cliffs Parkw	, ,	ndend 2	0657 -470 2	R&R No. 9	98-2-25	5a. MWO N	o. 219970092
1000 04,10	it Omio i dikin	(address)	i yiuiiui, L				O. no., job no., et	
3. Work Perfo	ormed by: Balti	more Gas Elec	tric, NED	<u> </u>	Type Code S Authorizatio Exp Date: N	n No.:]		
CCNPP De	pt, 1650 Calver	t Cliffs Parkwa	y, Lusby,	MD 20657	Section XI C		One -	
		(address)						
4. Identification	on of System: Sy	stem Number 06	Syster System	n Name: Re	actor Coola	nt Syst	tem	
(b) Application (b) Application (c) Mame of Componet	ole Construction Construction Construction Construction Construction of Components Name of Manufacturer	Repairs/Replaceme Repaired or Replaceme Manufacturers Serial Number	ent <u>83</u> eed and Repla National Board No.	Ed summer cement Compor O Identi	83 Ad; 92 Enents: ther ification	d sum Year Built	mer 92 Ad for Repaired, Replaced, or Replacement	or IWE/IWL ASME Code Stamped (Yes or No)
RCP Seal	Sulzer Bingham Inc.	1C875	NB 1242	# 22B Reactor C Mechanical Seal	•	1988	Replaced	Yes
Seal	Rebuild info field supplied	Rebuilt 1C874	NA	Seal, Cartridge A 875B-3V Comple Bingham per FO	ete Sulzer		Replacement	Yes
7. Description	of Work:							•
Replace me was rebuilt u cartridge.	chanical seal or under MO # 119	n #22B Reactor 9700068. No p	Coolant Puoressure ret	ump, as nece aining parts v	ssary. The r were replace	eplace d durin	ment seal ID g the rebuild	#(1C874) of this
8. Tests Cond	ucted: Hydros	tatic: 🛛	Pneumatio	:: 🔲 N	Iominal Operat	ing Press	sure: 🔲	•••
	•	e: <u>2300</u> psi.	_	st Temperature:		g. F		
NOTE: Supp	lemental sheets i	n form of lists, sl	retches, or di	rawings may h	e used, provid	led (1) s	ize is 8-1 <i>1</i> 2 in	x 11 in

9. Remarks:

A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 07/14/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 3-16-99 to 5-5-99, and state to the best of my vledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Date: July 14 1999 Commissions: NB 8Z26 ANT, MD 647 National Board, State, and Endorsements

As Required Required by the Provisions of the ASME Code Section XI

1 0	''Baltimor	e Gas Electric C	nmnany			7/40/40/	20	
1. Owner:		(name)	ompany		Date:	7/13/199	<u> </u>	
G&E Build	ding, P.O. Box	1475, Baltimore	, Marylan	d, 21203	Sheet 1 of	2		
		(address)						
2. Plant:	Calvert	Cliffs Nuclear Population (name)	ower Plar	nt	Unit:	Two		
1650 Calv	ert Cliffs Parkv	ay; Lusby, Mar	yland., 2	0657-47	02 R&R No	o. 98-2-2	55b. MWO N	o. 2199700926
		(address)	-				P.O. no., job no., et	
3. Work Per	formed by: Balt	imore Gas Elect	ric, NED			le Symbol ation No.:	Stamp: <u>N/A</u> N/A	
		\ ,			Exp Date			
CCNPP De	ept, 1650 Calve	rt Cliffs Parkway	, Lusby,	MD 206	Section X		One	
4. Identificat	tion of System: S	ystem Number064	4 Syster	n Name:	Reactor Coc	lant Sys	tem	
5. (a) Applica	able Construction C	ode and Class: AS	SME B&P	V Code S	Sect. III, 1965	Edition,	Winter 1967	Add; Class A
(b) Applica	ble Sect XI Ed. for	Repairs/Replacemen	ıt`83	Ed sum	mer 83 Ad; 92	Ed sum	mer 92 Ad fe	or IWE/IWL
6. Identificati		Repaired or Replace					Repaired,	ASME Code
Name of Componet	Name of Manufacturer	Manufacturers Serial Number	National Board No.] 	Other dentification	Year Built		Stamped (Yes or No)
Pump	Byron Jackson Pump	681-N-0444	N/A	#22B Reac	tor Coolant Pump	1977	Replaced	Yes
Cover	Rebuild info field supplied	Rebuilt 681-N-0437	N/A	Pump Cov Assembly, No. 1E-356	er and Heat Exchan Bryon Jackson Part 7V V	ger 19 98	Replacement	No
7. Description	n of Work:				٠			• •
This R&R Protating ass	lan was to make embly and pum	e necessary repa p cover was insta	irs to # 22 Illed back i	B Reacto into 22B	r Coolant Pun pump casing.	np (2PUN	MPRC22B). A	A rebuilt
8. Te sts Cond	lucted: Hydros Pressur		Pneumatic Tes	: Temperat	Nominal Oper ure: <u>532</u>]	ating Press Deg. F	sure:	

9. Remarks:

A Section XI System Hydrostatic Test of the affected component was performed during the system conditions listed in section 8. of this report.

Certificate of Compliance
We certify that the statements made in this report are correct and that this Replacement conforms to the rules of
the ASME Code, Section XI.
Type Code Symbol Stamp: N/A
Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: OF UR WOOD
Owner or where's Designee, Title Welding Engineer Date: 07/13/1999
Which is Designee, Thic
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
·
components described in this Owner's Report during the period 11-10-98 to 5-5-99, and state to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his
employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or
connected with this inspection.
$f_{A}(x,t)$
LOVERT LAWRENCE COmmissions: NB 8226 ANI, MD 647
Inspector's Signature National Board, State, and Endorsements
Date: 1999
The state of the s

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	e Gas Electric Co	ompany		Date:07/0	9/199	9	
0055.		(name)						
G&E Build	ding, P.O. Box	1475, Baltimore,	Maryland	1, 21203	Sheet 1 of 2			
		(address)						
2. Plant:	Calvert	Cliffs Nuclear Po	ower Plan	t <u> i. </u>	Unit:TV	vo		
		(name)						
1650 Calv	ert Cliffs Parkv	vay; Lusby, Mar	yland., 2	0657-4702	R&R No. 9	8-2-27	5a, MWO N	o. 219980184
		(address)	<u> </u>			(F	O. no., job no., et	c.)
1	Rali	timore Gas Elect	ric NED		Type Code S	ymbol S	stamp: N/A	
3. Work Per	formed by:	(name)	iic, RED	·	Authorization	No.:	N/A	
•		(Hame)			Exp Date: N	I/A		
CCNPP De	ept, 1650 Calve	ert Cliffs Parkway	, Lusby,	MD 20657	Section XI C	lass:	Two	:
-		(address)	······································				•	
4. Identificat	tion of System: S	ystem Number _052	2_ System	n Name: Saf	ety injection	า	<u> </u>	
					•			• •
•	able Construction C			1.0 1967 Edi				NACE #3401
(b) Applica	ible Sect XI Ed. for	Repairs/Replacemen	ıt. <u>83</u>	Ed summer	83 AG; 92 E	a sum	mer 92 Ad 10	or IVVE/IVVL
6. Identificat	tion of Components	s Repaired or Replace	d and Repla	cement Compon	ents:	-		4.00.00
	•						Repaired,	ASME Code
.ame of	Name of	Manufacturers	National	0	ther	Year	Replaced, or	Stamped
Componet	Manufacturer	Serial Number	Board No.		fication	Built	Replacement	(Yes or No)
Valve	Velan Enginnering	2CKVSI-434	N/A	#22 LPSI Pump	Discharge Check	1977	Replaced	No
Valve	Mannesmann Demag Huttentechnik	53523-GX 7762620-3	N/A	Valve, Nozzle Ch Flanged ends, S.		1991	Replacement	No
	Ruttemechnik			5. 1 · .				
7. Descriptio	n of Work:							
SI-434) on		replacement of #2 GC-1-2003. This trols.						
· ·								
8. Tests Cond	ducted: Hydro	static:	Pneumatic	::□ เ	ominal Operati	ng Press	sure: 🛛	•••
	Pressu	re: <u>200</u> psi.	Tes	st Temperature:	<u>73</u> Deg	z. F		

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 07/09/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 3-1/-99 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: 188226 AVZ, MOLAT. National Board, State, and Endorsements
Inspector's Signature National Board, State, and Endorsements Date: 1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric Co	ompany	·.	Date: 07/0	9/1999	<u>}</u>	
1. Owner		(name)			,			
G&E Buildir	ng, P.O. Box 1	475, Baltimore	, Maryland	, 21203	Sheet 1 of 2			er An er
		(address)						
2. Plant:	Calvert (Cliffs Nuclear Po	ower Plant		Unit:Tw	70		
A STATE OF THE STA		(name)						
1650 Calver	t Cliffs Parkw	ay; Lusby, Mar	yland., 20	657-4702	R&R No. 9	8-2-27	5b, MWO No	o. 219980184
		(address)				-	.O. no., job no., etc	.)
	Balti	more Gas Elect	ric. NED		Type Code Sy			
3. Work Perfor	med by:	(name)			Authorization	1 No.:]	<u> </u>	
					Exp Date: N		·	4
CCNPP Dep	t, 1650 Calve	t Cliffs Parkway	y, Lusby, I	MD 20657	Section XI C	lass:	Two .	
		(address)	_	0-6		_	•	
4. Identificatio	n of System: Sy	stem Number <u>05</u>	2 System	Name: Sat	ety Injection	1	•	
•				4000 Editio	C	4074	Add. Class T	Fue
5. (a) Applicable	le Construction Co	ode and Class: A	SME B31.7	1969 Editio	on, Summer	19/1/	Aud; Class	IWO
(b) Applicabl	e Sect XI Ed. for	Repairs/Replacemen	nt <u>83 l</u>	Ed summer	83 Ad; 92 E	d sum	mer 92 Ad fo	or IWE/IWL_
6. Identificatio	n of Components	Repaired or Replace	ed and Replac	ement Compon	ents:			ASME
		•				-	Repaired,	Code
Name of	Name of	Manufacturers	National		ther	Year	Replaced, or Replacement	Stamped (Yes or No)
Componet	Manufacturer	Serial Number	Board No.	Identi	fication	Built	Replacement	(200 02 0.0)
Piping System	Bechtel	10"GC1-2003	N/A	#22 LPSI Pump Valve Piping	Discharge Check	1977	Replaced	No
Nut	Nova Machine Products Corp.	20219	N/A	Nut, Heavy Hex, TPI, SA-1	1 in. X 8 94 Gr. 2H	19 98	Replacement	No
Flange, Pipe, 10", SA-182	Energy Steel & Supply Co.	25863	N/A	Flange, Pipe, 10' 300lb.,Welding P 182, Grade F316	leck, ASME SA-	19 98	Replacement	No
Rod	Cardinal Ind. Products	57533-GX	N/A	Rod, Allthread, I	lin. X 8 193 Gr. B7	1992	Replacement	No
7 Description	of Works				****			1.0
		eplacement of ne		ning weld ne	ck flance a	nd line	holting when	replacing
#22 Low Pre	ssure Safety I	njection Pump di	scharge ch	eck valve in 1	ine class 10°	" GC-1	-2003. This	work was
performed by	y Framatome 1	Technologies und	der their sp	ecial process	es and conti	rois.		
8. Tests Condu	ustade Uudes	static:	Pneumatic	🗖 💮 🛚 N	Iominal Operat	ing Pres	sure: 🏻	
o. Tesis Condi	•			t Temperature:		g. F	- · · · · · · · · · · · · · · · · · · ·	
	Pressu	re: <u>200</u> psi.	103	mporaturo.	<u> </u>	o· -		
NOTE: Supp	lemental sheets	in form of lists, sk	etches, or di	awings may b	e used, provid	ied (1)	size is 8-1/2 ir	n. x 11 in.,

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 is hereby invoked to satisfy Section XI required pressure test requirements. Volumetric Examination and Surface Examinations of welds were performed in accordance with ASME Section III, 1992 Edition.

We certify that the statements made in this report are correct and that this Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A Signed: A.R. Zimmerman Welding Engineer Date: 07/09/1999 Certificate of Inservice Inspection I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: ABBELL AND AND CHARLAGE AND AND CONNECTED AND CON	
Signed: A.R. Zimmerman Welding Engineer Date: O7/09/1999 Certificate of Inservice Inspection I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: LBBZZC ANZ MD 647 National Board, State, and Endorsements	We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Certificate of Inservice Inspection I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: LBBZZL AUZ MD 644 National Board, State, and Endorsements	Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: 188226 ANZ MD 647 National Board, State, and Endorsements	Welding Engineer Date: 07/09/1999
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 12-18-98 to 4-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: 188226 ANZ MD 647 National Board, State, and Endorsements

As Required Required by the Provisions of the ASME Code Section XI

			<u> </u>						
1. Owner:	Baltim	ore Gas El	ectric Co	ompany		Date: 07/0	9/1999	9	
1. 0	***	(name)							
G&E Build	ing, P.O. Bo	x 1475, B	altimore,	Maryland	d, 21203	Sheet 1 of 2			
		(addres	s)			<i>a</i>		•	
2. Plant:	Calve	ert Cliffs N	uclear Po	ower Plan	it	Unit: Tw	70	en de la companya de	
		(name)							
1650 Calve	ert Cliffs Par	kwav: Lu:	sbv. Mar	viand 2	0657-4702	R&R No. 9	8-2-27	6a, MWO No	o. 219960321
		(addres			· · · · · · · · · · · · · · · · · · ·		(P	'.O. no., job no., etc	.)
	R	altimore G	es Flect	ric NFD		Type Code Sy	mbol S	tamp: <u>N/A</u>	
3. Work Perf	ormed by:	(name)		110, 1120		Authorization	No.: 1	<u>A//A</u>	
		(441110)				Exp Date: N	<u>/A</u>		
CCNPP De	pt, 1650 Ca	vert Cliffs	Parkway	, Lusby,	MD 20657	Section XI Cl	ass:	Two	
	;	(addres	s)	٠.	:				
4. Identificati	ion of System:	System Nu	mber <u>05</u> 2	2_ System	n Name: Sa	fety injection	·	·	<u></u>
	•								
5. (a) Applical	ble Constructio	n Code and C	lass: AS	ME B31.	1.0 1967 Ed	ition, CCase	N-10	·	
(h) Applical	ble Sect XI Ed.	for Dengire/I	enlacemer	83	Fd summer	83 Ad; 92 Ed	i sumi	mer 92 Ad fo	r IWF/IWi
(b) Applicat	oic beet AI 131.	tor repairs	cpiaconon		<u> </u>	00 7.0, 02 2.			7. 111.12.111.12
Identificati	ion of Compone	ents Repaired	or Replace	d and Repla	cement Compo	nents:		ing film seems	ASME
	*. * *							Repaired,	Code
Name of	Name of	Manuf	facturers	National		Other	Year	Replaced, or	Stamped
Componet	Manufactur	er Serial	Number	Board No.	Ident	tification	Built	Replacement	(Yes or No)
Valve	Velan Enginner Co.	ing C	043	N/A	#21 LPSI Pump Valve	Discharge Check	1977	Replaced	No
Valve	Mannesmanı	s 53523-GX	7762620-4	N/A		heck, 10" 300 lb,	1991	Replacement	No
•	Demag Huttentechni	k ·			Flanged ends, S	S. Body	•	•	
	-	 	,						
7. Description		_							• • • • • •
						/ Injection Pun			
, ,	piping line 10 cesses and c		J2. Inis	work was	penormea by	y Framatome	ı ecnn	ologies unae	rtneir
special proc	esses and t	Oria Ols.			•				
8. Tests Cond	lucted: Hv	drostatic:	ב	Pneumatio	e: 🗆 1	Nominal Operation	ng Press	sure: 🔯	***
2000 00110	•	essure: 21			st Temperature:		•		
	ric		≖ h₂ı.				. -		

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 07/09/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 3-11-99 to 4-22-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: UBS 226 WT, MD647 National Board, State, and Endorsements Date: 4 1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:						ate: 07/0	9/199	9	
G&E Bulldi	ng, P.O.	. Box 14	(name) 75, Baltimore	e, Marylanc	i, 21203 s	neet 1 of 2			
			(address)					•	
2. Plant:	C	alvert CI	iffs Nuclear P	ower Plan	t	nit: Tw	10		de de la companya de
1650 Celvo	rt Cliffe	Dorlayas	/; Lusby, Mai	ndand 2	0657_4702 R	&R No. 9	8-2-27	66 MWO N	o. 219960321
1050 Calvel	Cillis	Paikway	(address)	yland., Z	0037-4702 11	411110.0		P.O. no., job no., etc	
		5 - 111		MED	T	vpe Code S		Stamp: N/A	
3. Work Perfo	rmed by:	Baltim	ore Gas Elec	tric, NED	-	uthorization			
			(name)	1		p Date: N	•		
CCNPP Dep	ot, 1650	Calvert	Cliffs Parkwa	y, Lusby,		ction XI Cl	_	Two	
			(address)	<u> </u>			_		
4. Identification	on of Syste	em: Syste	em Number <u>05</u>	2 System	n Name: Safety	Injection	1	-	
5. (a) Applicable	le Constru	ection Code	e and Class: A	SME B31.7	7 1969 Edition,	<u>Summer</u>	1971	<u>Add; Class </u>	Two
(b) Applicable	le Sect XI	Ed. for Re	epairs/Replaceme	nt' 83	Ed summer 83	Ad: 92 Ed	d sum	mer 92 Ad f	or IWE/IWL
			•						
6. Identificatio	on of Com	ponents Re	epaired or Replac	ed and Replac	cement Components	:	1,1		ASME
								Repaired,	Code
Name of	Namo		Manufacturers	National	Other		Year	Replaced, or	Stamped
Componet	Manufa	cturer	Serial Number	Board No.	Identificat	tion	Built	Replacement	(Yes or No)
Piping System	Bech	itel	10"GC1-2002	N/A	#21 LPSI Pump Disch Valve Piping	narge Check	1977	Replaced	No
Nut	Nova Ma Products		20219	NA	Nut, Heavy Hex, 1 in. TPI, SA-194 G		19 98	Replacement	No
Rod	Cardina Produ		57533-GX	NA	Rod, Allthread, 1in. X TPI, SA-193 (1992	Replacement	No
Flange, Pipe, 10'', SA-182	Energy S Supply		25863	N/A	Flange, Pipe, 10", Rai 300lb., Welding Neck, 182, Grade F316		19 98	Replacement	No
7. Description	of Work:								
This R&R Pla #21 Low Pre	an is to	afety Inje	ection Pump di	scharge ch	ping, weld neck eck valve in line ecial processes i	class 10"	GC1-		
periormed b)	, i iailia	wille 160	oniologies und	acı ulcır əpi	colai processes (uio.		
8. Tests Condu	icted:	Hydrosta	tic: 🔲	Pneumatic	:: Nomi	nal Operation	ng Pres	sure: 🛛	
		Pressure:	<u>210</u> psi.	Tes	t Temperature: 9	<u>90</u> Deg	;. F		
					•				

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Code Case N-416-1 is hereby invoked to satisfy Section XI required pressure test requirements. Volumetric Examination and Surface Examinations of welds were performed in accordance with ASME Section III, 1992 Edition.

	 	
We certify that the statements made in this report are correct and the ASME Code, Section XI.	ance that this <u>Replacemer</u>	nt conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A		
Signed: Owner's Designee, Title	A.R. Zimmerman Welding Engineer	Date: <u>07/09/1999</u>
Certificate of Inservice In	spection	
I, the undersigned, holding a valid commission issued by the National and the State of Maryland and employed by Factory Mutual Insurance Cocomponents described in this Owner's Report during the period/2-/. best of my knowledge and belief, the Owner has performed examinations Owner's Report in accordance with the requirements of the ASME Code, By signig this certificate neither the Inspector nor his employer in the examinations and corrective measures described in this Owner's Report employer shall be liable in any manner for any personal injury or property connected with this inspection. Linspector's bignature Commissions: Linspector's bignature Date:	o. of Norwood, MA. have $8-98$ to $4-22$ and taken corrective m Section XI. nakes any warrant, export. Furthermore, neither damage of a loss of an	2-99, and state to the neasures described in this pressed or implied, concerning er the Inspector nor his my kind arising from or

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company (name)	Date: 07/13/1999
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203	Sheet 1 of 2
(address)	
2. Plant: Calvert Cliffs Nuclear Power Plant	Unit: Two
(name)	
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702	R&R No. 99-2-012, MWO No. 2199703971
(address)	(P.O. no., job no., etc.)
3. Work Performed by: Baltimore Gas Electric, NED	Type Code Symbol Stamp: N/A
(name)	Authorization No.: <u>N/A</u>
COMPRIDE DOMA 4000 Colored OUG - Posteron Land - MC - COCK	Exp Date: N/A
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657	Section XI Class: One
5. (a) Applicable Construction Code and Class: ASME B&PV Code Sect. CCases 1581, N-2, N-10 (b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer & Identification of Components Repaired or Replaced and Replacement Components Name of Name of Manufacturers National Otto	ents: Repaired, Code her Year Replaced, or Stamped fication Built Replacement (Yes or No)
Valve, Pzr. Dresser Industries 28696 BY68900 N/A Valve, Pressurize Relief, ERV Inc. 1&2-ERV-402, 40	r Relief, ERV, 1998 Replacement No
7. Description of Work: Replace pressurizer relief valve 2ERV402 with a new valve.	
8. Tests Conducted: Hydrostatic: Pneumatic: No. Pressure: 2300 psi. Test Temperature:	ominal Operating Pressure: 532 Deg. F

9. Remarks:

A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Per Section XI, IWB-2200(b), shop visual and PT exams were accepted in lieu of the specified VT-1 Visual Examination of valve bolting.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Owner's Designee, Title Date: 07/13/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 3-19-99 to 7-13-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection. Commissions: MB 822C ANT, MB 647 Inspector's signature National Board, State, and Endorsements Date: Outlied 13 1999
Jan 1997
•

As Required Required by the Provisions of the ASME Code Section XI

	Owner: Baltimore Gas Electric Company					13/199	9	
		(name)						
G&E Build	ding, P.O. Box 1	475, Baltimore	, Maryland	d, 21203	Sheet 1 of 2			
		(address)		**				
2. Plant: _	Calvert C	Cliffs Nuclear P	ower Plan	nt	Unit:T	wo		
1650 Calv	ert Cliffs Parkwa		viand 2	0657-4702	R&R No. 9	99-2-01	14, MWO No	21994034
		(address)	<i>y.</i> 2				P.O. no., job no., et	
2 377 1 5	Ralti	more Gas Elec	tric NED		Type Code S		-	
3. Work Per	formed by: Darti	(name)	iio, iteb		Authorizatio	n No.:	<u>N/A</u>	
					Exp Date: 1	N/A		
CCNPP D	ept, 1650 Calver	t Cliffs Parkwa	y, Lusby,	MD 20657	Section XI C	lass:	One	
		(address)					•	
4. Identifica	tion of System: Sys	stem Number <u>05</u>	2 Syster	m Name: Safe	ty Injectio	n		 :
~ / · · · · · · ·								
5. (a) Applica	able Construction Co			5 Pipe Flanges	s and Fian	ged Fi	ttings NPS 1	/2 in. thru
		in	l•					
(b) Applica	able Sect XI Ed. for I	Repairs/Replacemen	nt <u>83</u>	Ed summer 8	3 Ad; 92 E	d sum	mer 92 Ad fe	or IWE/IWL
f Talamater				•				
Identificat	tion of Components I	Kensired or Kenigo						
	-	repaired of Replace	ed and Replac	cement Componer	nts:	. :		ASME
	•		ed and Replac	cement Componer	nts:	:	Repaired,	Code
Name of	Name of	Manufacturers	National	Oth	er	Year	Replaced, or	Code Stamped
				Oth	er	Year Built		Code
Name of	Name of	Manufacturers	National	Oth	er cation		Replaced, or	Code Stamped
Name of Componet	Name of Manufacturer Velan Enginnering	Manufacturers Serial Number	National Board No.	Oth Identific	er cation eck Valve	Built	Replaced, or Replacement	Code Stamped (Yes or No)
Name of Componet	Name of Manufacturer Velan Enginnering Co. Velan Engineering	Manufacturers Serial Number	National Board No.	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan	eck Valve 600# SwiChkv	Built 1977	Replaced, or Replacement	Code Stamped (Yes or No)
Name of Componet Valve	Name of Manufacturer Velan Enginnering Co. Velan Engineering Co. Velan Engineering	Manufacturers Serial Number 0010 10523-GX 7051	National Board No. N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan	eck Valve 60# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv.,	Built 1977 1995	Replaced, or Replacement Replaced Replacement	Code Stamped (Yes or No) No
Name of Componet Valve Disc Stud	Name of Manufacturer Velan Engineering Co. Velan Engineering Co. Velan Engineering Co. Velan Engineering	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX	National Board No. N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan	eck Valve 60# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv.,	Built 1977 1995 1991	Replaced, or Replacement Replaced Replacement Replacement	Code Stamped (Yes or No) No No
Name of Componet Valve Disc Stud Stud	Name of Manufacturer Velan Engineering Co. Velan Engineering Co. Velan Engineering Co. Velan Engineering Co. Velan Engineering	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX	National Board No. N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1-	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI,	Built 1977 1995 1991 1984	Replaced, or Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No
Name of Componet Valve Disc Stud Stud Stud	Name of Manufacturer Velan Engineering Co.	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX 10523-GX	National Board No. N/A N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1-	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI,	Built 1977 1995 1991 1984 1995	Replaced, or Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut	Name of Manufacturer Velan Engineering Co.	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX	National Board No. N/A N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Cover, Velan Nut, Hex, Cover, 1- SA-194 Gr7, 12 in.	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI,	Built 1977 1995 1991 1984 1995 1994	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut	Name of Manufacturer Velan Engineering Co. Outlier Engineering Co. Velan Engineering Co. Velan Engineering Co.	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX 10479-GX	National Board No. N/A N/A N/A N/A N/A	Oth Identifice 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1- SA-194 Gr7, 12 in.	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI, SwCkv 1500#	Built 1977 1995 1991 1984 1995 1994	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut Nut Description Overhaul 20	Name of Manufacturer Velan Engineering Co.	Manufacturers Serial Number 6010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX 10479-GX	National Board No. N/A N/A N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Olting as neces	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI, SwCkv 1500#	Built 1977 1995 1991 1984 1995 1994	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut Nut Description Overhaul 20	Name of Manufacturer Velan Engineering Co. Outlier Engineering Co. Velan Engineering Co. Velan Engineering Co.	Manufacturers Serial Number 6010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX 10479-GX	National Board No. N/A N/A N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Olting as neces	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI, SwCkv 1500#	Built 1977 1995 1991 1984 1995 1994	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut Overhaul 20 Iccordance	Name of Manufacturer Velan Engineering Co. Velan Engineering Co.	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX 10479-GX	National Board No. N/A N/A N/A N/A N/A N/A N/A	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. olting as neces f needed.	cr cation eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI, SwCkv 1500#	Built 1977 1995 1991 1984 1995 1994 1995	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No
Name of Componet Valve Disc Stud Stud Stud Nut Nut Nut Description Overhaul 20	Name of Manufacturer Velan Engineering Co.	Manufacturers Serial Number 0010 10523-GX 7051 53907-GX 54027-GX 10523-GX 90247-GX 10479-GX ace valve disc as on drawing 121 atic:	National Board No. N/A N/A N/A N/A N/A N/A N/A Prod cover board cover	Oth Identific 21A Loop Inlet Ch Disc, Velan, 12" 15 P/N 8209-033N440 Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Stud, Cover, Velan P-34754-1, 1-7/8"xi Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. Nut, Hex, Cover, 1- SA-194 Gr7, 12 in. olting as neces f needed.	eck Valve 600# SwiChkv 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 12" Sw Ckv., 8TPIx9-1/4" 7/8"x8TPI, SwCkv 1500# 7/8"x8TPI, SwCkv 1500#	Built 1977 1995 1991 1984 1995 1994 1995 nove ar	Replaced, or Replacement Replacement Replacement Replacement Replacement Replacement Replacement Replacement	Code Stamped (Yes or No) No No No No No No

9. Remarks:

A Section XI VT-1 Visual Examination of the replacement threaded fasteners was performed to satisfy Section XI Pre-Service NDE Requirements. A Section XI System Leakage Test of the affected component was performed during the system conditions listed in section 8. of this report. Performed a surface examination of the drilled keyways and cotter pin hole. The replacement valve wedge/plug/disc/trim received a Construction Code Surface Examination at the request of the resident ANII.

Applicable Manufacturer's Data Reports to be Attached
We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 07/13/1999
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 3-2-99 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Lobert Commissions: LB8226ANI MDC47 Inspector's Signature National Board, State, and Endorsements
Date: 13 199 9

As Required Required by the Provisions of the ASME Code Section XI

•		:				: 1			
1. Owner:	Baltimore	Gas Electric C	ompany		Date:	5/17/199	9		
005 5.44		(name)							
G&E Buildi	ng, P.O. Box 1	475, Baltimore	e, Marylan	d, 21203	Sheet 1 of	2			
1		(address)							
2. Plant:	Calvert (Cliffs Nuclear P	ower Plan	it	Unit:	Two			•
		(name)				-	•		:
1650 Calve		ay; Ľusby, Mai	ryland., 2	0657-4702	R&R No	99-2-01	i6, MWO No	. 219990	00912
		(address)				(P.O. no., job no., et	c.)	
3. Work Perfo	rmed by: Balti	more Gas Elec	tric, NED	**			Stamp: <u>N/A</u>	• • .	
		(name)	•	•		tion No.:	<u>N/A</u>	. •	
CCNPP Der	at 1650 Calvai	t Cliffs Parkwa	v Luoby	MD ODEET	Exp Date:		_		•
OCKEP Det	or, 1050 Carver	(address)	y, Lusby,	MID 2003/	Section X	I Class:	Two		
(b) Applicable dentification Name of Componet	le Construction Colle Sect XI Ed. for I on of Components I Name of Manufacturer	de and Class: A Repairs/Replaceme Repaired or Replac Manufacturers Serial Number	SME B31. nt 83 ed and Repla National Board No.	7 1969 Ed Ed summ cement Com	er 83 Ad; 92 ponents: Other	Ed sum Year Built	Repaired, Replaced, or Replacement	ASMI Code Stampe (Yes or	IWL E
Piping System	Bechtel	6"EB12-2007	N/A		Piping between nd Isolation valve	1990 s.	Repaired	No	
7 Daniel 1991			•						÷
 Description A weld repair an F.A.C. ins 	r will be made t	o 6"EB-12-2007	because o	of a location	n found belo	w minimu	ım wall thickr	ness dur	ing
8. Tests Condu	cted: Hydrosi	atic:	Pneumatic	:: □	Nominal Ope	rating Pres	sure:		
	Pressure			st Temperatur		Deg. F			•••
MOTE. C						• • • • • •			

9. Remarks:

No Section XI Pre-Service NDE was performed in support of this activity.

Certificate of Compliance We certify that the statements made in this report are correct and that this Repair conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 05/17/1999
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 3-20-99 to 4-12-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Date:

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore	Gas Electric (Company		Date:	06/09/199	99	
G&E Buildi	ing, P.O. Box 1	1475, Baltimor	e, Marylan	d, 21203	Sheet 1 of	· · 2		
		(address)				_		
2. Plant:	Calvert	Cliffs Nuclear F	Power Plan	nt	Unit:	Two		\$
		(name)			Onit.			1
1650 Calve	rt Cliffs Parkw	ay; Lusby, Ma	ndend 3	00657-4709	D S.D. N.	- 00 0 0	DE ARMO M.	
	- Omio i diku	(address)	ilylailu., z	20037-4702	non N			. 219990103
3		• • • • • • • • • • • • • • • • • • • •			Tuna Cod		P.O. no., job no., et	ic.)
3. Work Perfo	rmed by: Balti	more Gas Elec	tric, NED				Stamp: N/A	
		(name)	. •			tion No.:	<u>N/A</u>	
CCNPP Dep	ot, 1650 Calvei	t Cliffs Parkwa	v. Lusby.	MD 20657	Exp Date Section X		0==	
	-	(address)			Dection 2	il Class.	One .	
4. Identification	on of System: Sy	stem Number _05	52 System	m Name: Saf	ety Inject	tion		
S (a) Ammlianti	le Construction Co		0115 504				•	_
5. (a) Applicable	ie Construction C	ode and Class: A	SME B31.	7 1969 Editio	on, Sumn	<u>ner 1971</u>	Add; Class	One
		Repairs/Replaceme						
(b) Applicable	le Sect XI Ed. for		ent <u>83</u>	Ed summer	83 Ad; 92			or IWE/IWL
(b) Applicable	le Sect XI Ed. for	Repairs/Replaceme	ent <u>83</u>	Ed summer	83 Ad; 92		mer 92 Ad f	or IWE/IWL ASME
(b) Applicabl 6. Identificatio (ame of	le Sect XI Ed. for an of Components Name of	Repairs/Replaceme Repaired or Replac Manufacturers	ent <u>83</u>	Ed summer (83 Ad; 92			or IWE/IWL
(b) Applicabl 6. Identificatio	le Sect XI Ed. for	Repairs/Replaceme	ent <u>83</u>	Ed summer to cement Compon	B3 Ad; 92 ents:	ed sum	mer 92 Ad for Repaired,	ASME Code
(b) Applicabl 6. Identificatio (ame of	le Sect XI Ed. for an of Components Name of	Repairs/Replaceme Repaired or Replac Manufacturers	ent <u>83</u> eed and Repla National	Ed summer of cement Componer of Componer o	B3 Ad; 92 ents: her lication	e Ed sum Year Built	mer 92 Ad for Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(b) Applicable 6. Identification fame of Componet	n of Components Name of Manufacturer	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number	ent 83 ed and Repla National Board No.	Cement Compon Ot Identif Safety Injection F Plate, Steel 1/2 in	B3 Ad; 92 ents: her fication Piping Suppor	Year Built	mer 92 Ad for Repaired, Replaced, or	ASME Code Stamped
(b) Applicable 6. Identification fame of Componet Piping System	Name of Manufacturer Bechtel Dubose Nat'l	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number CC4-2009-R9	ent 83 ed and Repla National Board No.	Cement Compon Ot Identif Safety Injection F Plate, Steel 1/2 in Carbon Steel Nut, Heavy Hex,	ents: her fication Piping Suppor	Year Built t 1977 6, 1992	mer 92 Ad for Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
(b) Applicable 6. Identification fame of Componet Piping System Plate	Name of Manufacturer Bechtel Dubose Nat'1 Energy	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number CC4-2009-R9 53792-GX	ed and Repla National Board No. N/A N/A	Cement Componer of Identification From Safety Injection From Plate, Steel 1/2 in Carbon Steel Nut, Heavy Hex, SA-194 Gr. 2H Bolt, Heavy Hex I	ents: her fication Piping Suppor ASME SA-3 3/4 in. X 10 T	Year Built 1 1977 6, 1992 PI, 1998	mer 92 Ad for Replaced, or Replaced Replacement	ASME Code Stamped (Yes or No) No
(b) Applicable 6. Identification lame of Componet Piping System Plate Nut Bolt	Name of Manufacturer Bechtel Dubose Nat'l Energy Allied Group Cardinal Ind. Products	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number CC4-2009-R9 53792-GX 31389	ent 83 Red and Repla National Board No. N/A N/A N/A	Cement Componer of Identification of Identification of Plate, Steel 1/2 in Carbon Steel Nut, Heavy Hex, SA-194 Gr. 2H	ents: her fication Piping Suppor ASME SA-3 3/4 in. X 10 T	Year Built 1 1977 6, 1992 PI, 1998	Repaired, Replaced, or Replacement Replaced Replacement Replacement	ASME Code Stamped (Yes or No) No No
(b) Applicable 6. Identification 6. Identificati	Name of Manufacturer Bechtel Dubose Nat'l Energy Allied Group Cardinal Ind. Products	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number CC4-2009-R9 53792-GX 31389 88400-GX	ed and Replated National Board No. N/A N/A N/A	Cement Componer of Identification Safety Injection For Plate, Steel 1/2 in Carbon Steel Nut, Heavy Hex, SA-194 Gr. 2H Bolt, Heavy Hex Fin. X 10 TPI, SA	ents: her fication Piping Suppor ASME SA-3 3/4 in. X 10 T Head, 3/4 in. 3 -325 Tp. 1	Year Built 1977 6, 1992 PI, 1998	mer 92 Ad for Replaced, or Replaced Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No
(b) Applicable 6. Identification fame of Componet Piping System Plate Nut Bolt Description of Modify 12"CC	Name of Manufacturer Bechtel Dubose Nat'l Energy Allied Group Cardinal Ind. Products of Work: 24-2009-R9 beau	Repairs/Replaceme Repaired or Replac Manufacturers Serial Number CC4-2009-R9 53792-GX 31389	ed and Replated National Board No. N/A N/A N/A	Cement Componer of Identification Safety Injection For Plate, Steel 1/2 in Carbon Steel Nut, Heavy Hex, SA-194 Gr. 2H Bolt, Heavy Hex Fin. X 10 TPI, SA	ents: her fication Piping Suppor ASME SA-3 3/4 in. X 10 T Head, 3/4 in. 3 -325 Tp. 1	Year Built 1977 6, 1992 PI, 1998	mer 92 Ad for Replaced, or Replaced Replacement Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No
(b) Applicable 6. Identification 6. Identificati	Name of Manufacturer Bechtel Dubose Nat'l Energy Allied Group Cardinal Ind. Products of Work: 24-2009-R9 beau	Repairs/Replaceme Repaired or Replaceme Manufacturers Serial Number CC4-2009-R9 53792-GX 31389 88400-GX	ed and Replated National Board No. N/A N/A N/A	Cement Componer of Identification of Identificat	ents: her fication Piping Suppor ASME SA-3 3/4 in. X 10 T Head, 3/4 in. 3 -325 Tp. 1	Year Built 1 1977 6, 1992 PI, 1998 (2 1995	Repaired, Replaced, or Replaced Replacement Replacement Replacement	ASME Code Stamped (Yes or No) No No

9. Remarks:

A Section XI VT-3/4 Visual Examination of the affected component support was performed prior to the system being returned to service.

We certify that the statements made in this report are correct and the ASME Code, Section XI.	iance I that this Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A	
Signed: Oyner or Owner's Designee, Title	A.R. Zimmerman Welding Engineer Date: 06/09/1999
Certificate of Inservice In	nspection
I, the undersigned, holding a valid commission issued by the National and the State of Maryland and employed by Factory Mutual Insurance Components described in this Owner's Report during the period	to <u>H-18-99</u> , and state to the sand taken corrective measures described in this, Section XI. makes any warrant, expressed or implied, concerning out. Furthermore, neither the Inspector nor his
V	

As Required Required by the Provisions of the ASME Code Section XI

1. Owner:	Baltimore (Gas Electric Co	mpany	·	_ Date: _ 06/0	09/199	9	
G&E Buildir	ng, P.O. Box 14	175, Baltimore,	Maryland	l, 21203	Sheet 1 of 2			
		(address)		·	-			
2. Plant:	Calvert C	liffs Nuclear Po	wer Plan	<u> </u>	_ Unit:Tv	VO		
1650 Calver	t Cliffs Parkwa	y; Lusby, Mary	/land., 20	0657-4702	R&R No. 9	9-2 -0 2	8, MWO No.	2199705517
		(address)	<u> </u>			(F	.O. no., job no., etc	:.)
3. Work Perform	rmed by: Baltin	nore Gas Electi	ric, NED	, to the state of	Type Code S Authorization	•		
		(name)			Exp Date: N	√A/I		•
CCNPP Dep	ot, 1650 Calvert	Cliffs Parkway	, Lusby,	MD 20657	Section XI C	lass:	Two .	
4. Identification	on of System: Sys	(address) stem Number083	Systen	n Name: M	ain Steam &	SG Se	condary Sid	e & SG
:	le Construction Coo		ntrol Valv	res	92 Atmosphor 83 Ad; 92 E			; · · · · · · · · · · · · · · · · · · ·
•••		Repaired or Replace Manufacturers Serial Number		cement Compo		Year Built	Repaired, Replaced, or Replacement	ASME Code Stamped (Yes or No)
Valve	Copes Vulcan Inc.	144004	N/A	#21 Main Steam		1977	Replaced	No
Trim	Copes-Vulcan Inc.	26137 145380	N/A	-	y, Valve, 5 inch, -143178, P/N	1998	Replacement	No
7. Description Overhaul #2		tmospheric Dun	np 2CV393	39; replace	trim and bolti	ng as n	ecessary.	
8. Tests Condu	ected: Hydrost Pressure		Pneumatic Tes	:: Temperature	Nominal Operat :: <u>400</u> De	ing Pres g. F	sure: 🛛	

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A
Signed: A.R. Zimmerman Welding Engineer Date: 06/09/1999 Owner or Owner's Designee, Title
Certificate of Inservice Inspection
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the
components described in this Owner's Report during the period 4-6-99 to 5-5-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.
Pobut Waurence Commissions: NB8226 ANI, MD647 Inspector's Signature National Board, State, and Endorsements Date: June 10, 1999

As Required Required by the Provisions of the ASME Code Section XI

1. Owner: Baltimore Gas Electric Company	Date:07/01/1999
, (name)	
G&E Building, P.O. Box 1475, Baltimore, Maryland, 21203	Sheet 1 of 2
(address)	$(x_1, \dots, x_n) = (x_1, \dots, x_n$
2. Plant: Calvert Cliffs Nuclear Power Plant	Unit:Two
(name)	
1650 Calvert Cliffs Parkway; Lusby, Maryland., 20657-4702	R&R No. 99-2-036, MWO No. 2199802244
(address)	(P.O. no., job no., etc.)
Politimara Gas Floatric NED	Type Code Symbol Stamp: N/A
3. Work Performed by: Baltimore Gas Electric, NED	Authorization No.: <u>N/A</u>
(name)	Exp Date: N/A
CCNPP Dept, 1650 Calvert Cliffs Parkway, Lusby, MD 20657	Section XI Class: Two
(address)	
4. Identification of System: System Number 052 System Name: Safe	ety Injection
the second of	
5. (a) Applicable Construction Code and Class: API-Std. 610, 4th Edition	ı, 1965
	00 td-00 Ed
(b) Applicable Sect XI Ed. for Repairs/Replacement 83 Ed summer 8	83 Ad; 92 Ed Summer 92 Ad for IWE/IWL
6. Identification of Components Repaired or Replaced and Replacement Compon	nents:
	Repaired, Code
Name of Name of Manufacturers National Of	ther Year Replaced, or Stamped
14mile of 14mile of 14mile for 14mile	fication Built Replacement (Yes or No)
Pump Ingersol Rand 2PUMPSILPSI21 N/A #21 Low Pressur Injection Pump	e Safety 1977 Replaced No
Pump, Assem., Ingersol Rand Co 17190-MX 2873A N/A Pump Assembly,	Complete minus 1982 Replacement No
LPSI Pump Casing for Safety Injection I	
• Dately injection	· ump(a)
7. Description of Work:	
This R&R Plan is for the replacement of the stuffing box extension of Pressure Safety Injection Pump. The replacement assembly was restuffing box extension is considered a pressure retaining part from the stuffing box extension is considered a pressure retaining part from the stuffing box extension is considered a pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension of the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining part from the stuffing box extension is considered as pressure retaining the stuffing box extensions and the stuffing box extensions are stuffing box extensions.	ebuilt under MWO 0199600804. The
8. Tests Conducted: Hydrostatic: Pneumatic: N Pressure: 210 psi. Test Temperature:	Iominal Operating Pressure: 90 Deg. F

9. Remarks:

A Section XI System Functional Test of the affected component was performed during the system conditions listed in section 8. of this report.

We certify that the statements made in this report are correct and that this the ASME Code, Section XI. Replacement conforms to the rules of	
Type Code Symbol Stamp: N/A Certificate of Authorization No.: N/A Expiration Date: N/A	
Signed: A.R. Zimmerman Welding Engineer Date: 07/01/1999	
Certificate of Inservice Inspection	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Maryland and employed by Factory Mutual Insurance Co. of Norwood, MA. have inspected the components described in this Owner's Report during the period 4-22-99 to 4-22-99, and state to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the Inspector nor his employer makes any warrant, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage of a loss of any kind arising from or connected with this inspection.	
Lobert L. Juripee Commissions: NBBZZG ANT MD647 Inspector's Signature National Board, State, and Endorsements Date: July 9, 1999	